

Radio

AMATEUR

Call Book Magazine

\$3⁰⁰

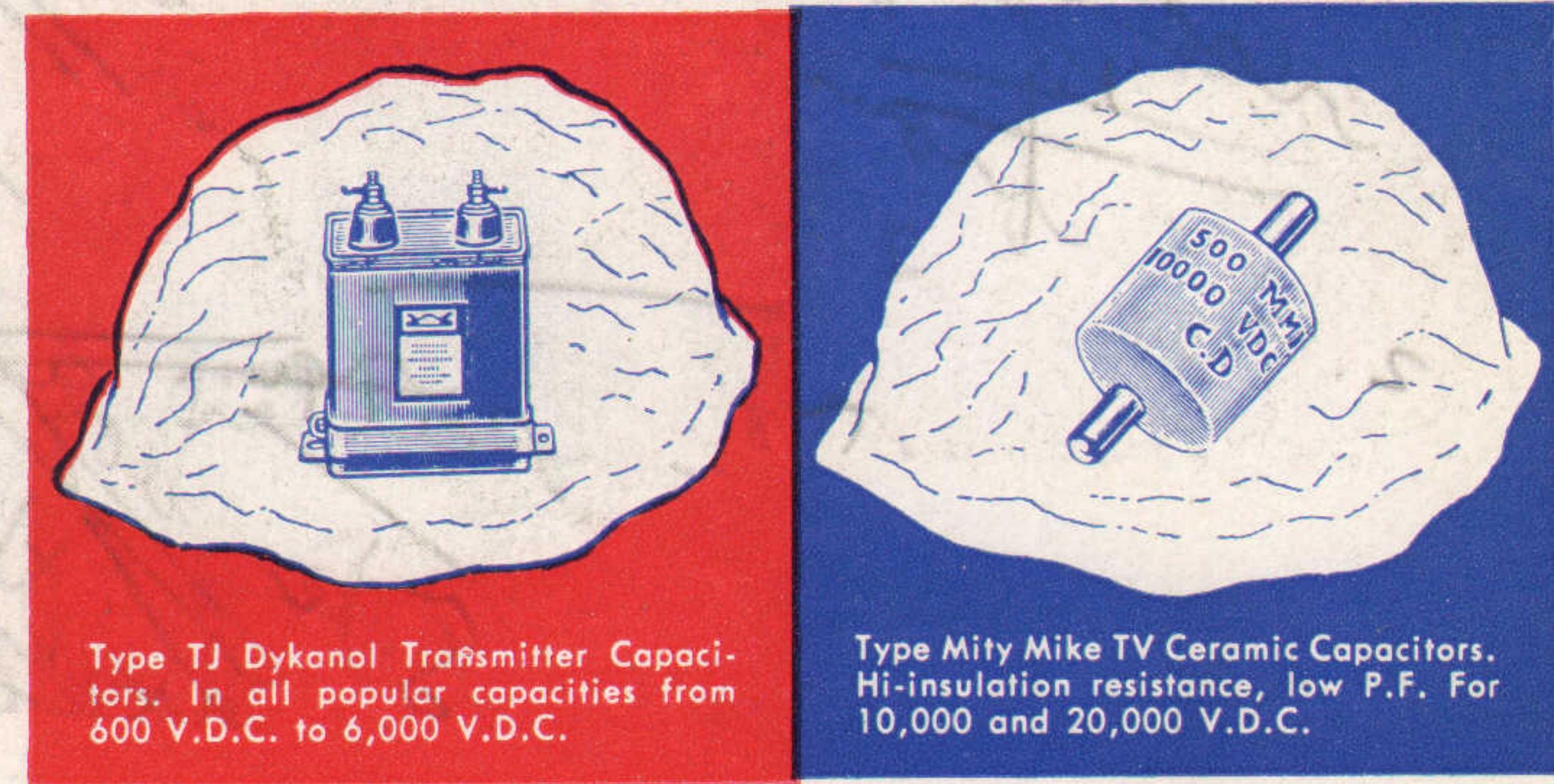
Foreign
\$3²⁵



FALL 1952

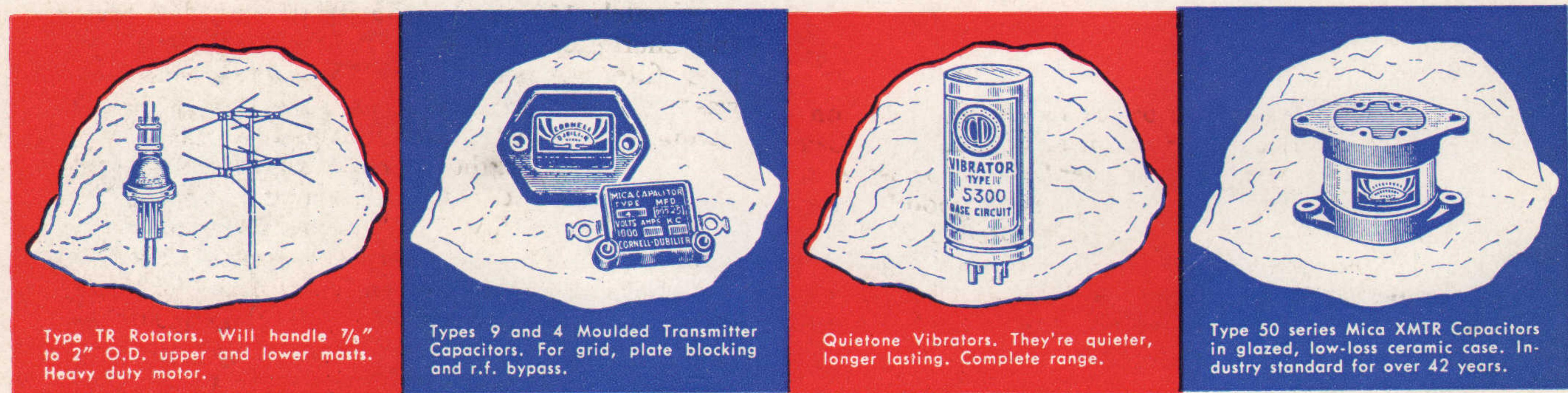
Why Take a Chance?

You
know
what's under
these
shells... *consistently dependable*



Type TJ Dykanol Transmitter Capacitors. In all popular capacities from 600 V.D.C. to 6,000 V.D.C.

Type Mity Mike TV Ceramic Capacitors. Hi-insulation resistance, low P.F. For 10,000 and 20,000 V.D.C.



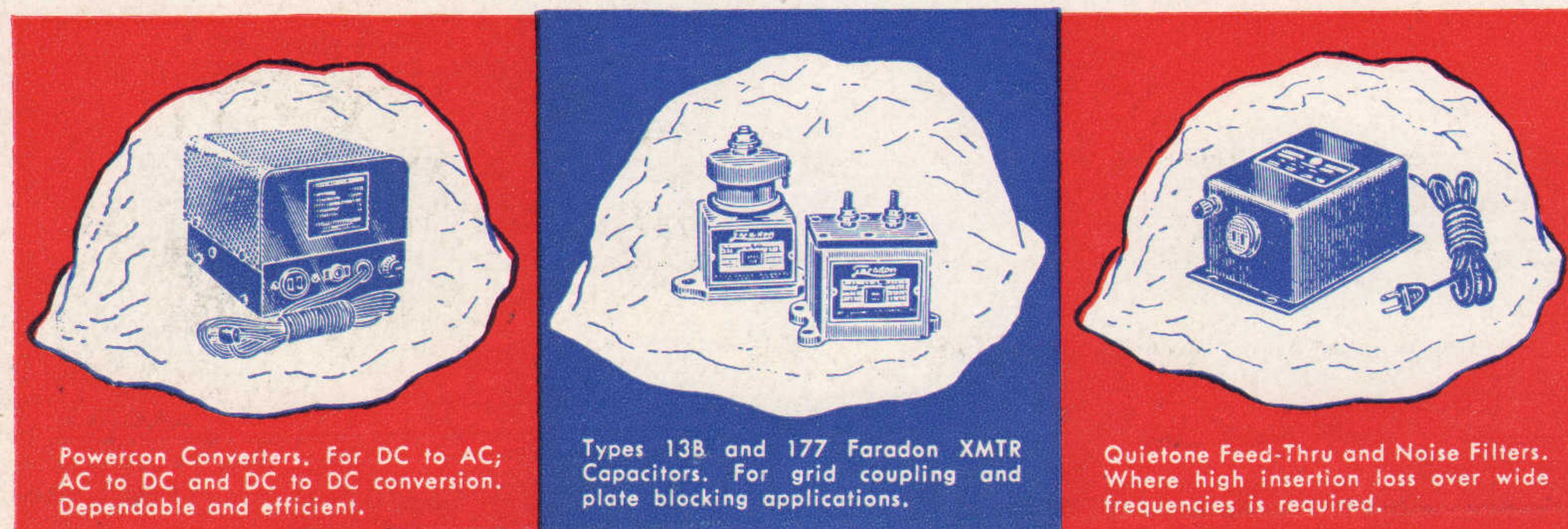
Type TR Rotators. Will handle 7/8" to 2" O.D. upper and lower masts. Heavy duty motor.

Types 9 and 4 Molded Transmitter Capacitors. For grid, plate blocking and r.f. bypass.

Quietone Vibrators. They're quieter, longer lasting. Complete range.

Type 50 series Mica XMTR Capacitors in glazed, low-loss ceramic case. Industry standard for over 42 years.

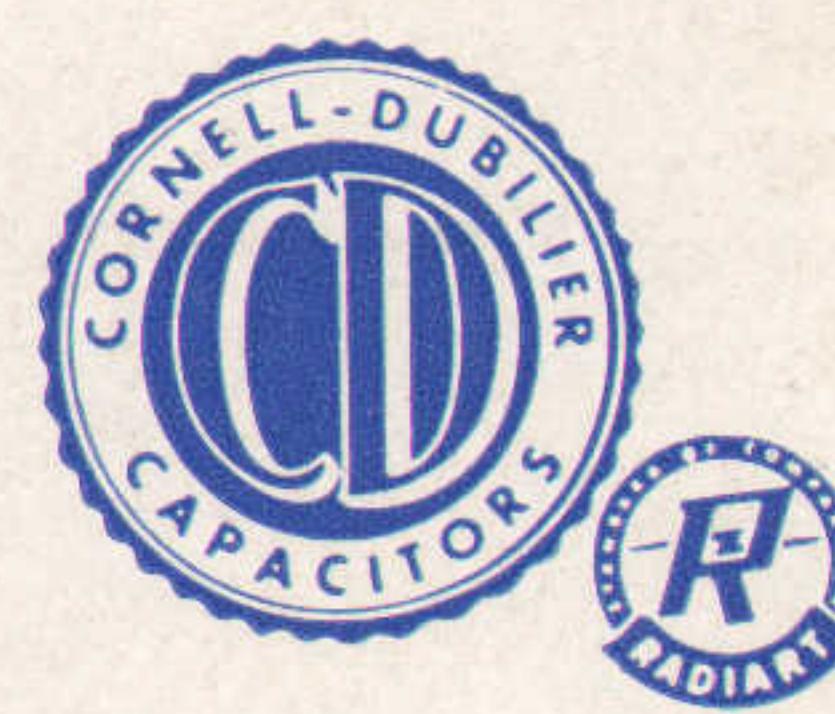
Cornell-Dubilier & Faradon Products



Powercon Converters. For DC to AC; AC to DC and DC to DC conversion. Dependable and efficient.

Types 138 and 177 Faradon XMTR Capacitors. For grid coupling and plate blocking applications.

Quietone Feed-Thru and Noise Filters. Where high insertion loss over wide frequencies is required.



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Dept. JH92, South Plainfield, N. J.

Plants in South Plainfield, N. J.; New Bedford, Worcester and Cambridge, Mass.; Providence, R. I.; Indianapolis, Ind.; Fuquay Springs, N. C.; and subsidiary, the Radiart Corp., Cleveland, O.

Lt. Col. Fred J. Elser
in his ham shack

LT. COL. FRED J. ELSE
820 John's Road, Augusta, Georgia, 21 June, 1952

Mr. R. Bellew
Collins Radio Co.
Cedar Rapids, Ia.

Dear Dick:

I received my 32V-3 on 4 April, 1952 and connected it through my 35C-2 filter with RG8/U coax to the Harrison Antenna coupler bought for use with my old 32V-1 in Turkey. This gives me good loading to my 100' Inverted "L" Marconi Antenna, 30' high, on all bands 10 through 80 meters. Grounding is accomplished by means of 3/8" copper braid to the house copper water pipe system. On Sunday, 6 April, with the assistance of W4EZU, W4HRR, and W4RVE, all also members of the Augusta Radio Club's TVI Committee, tests were performed on my neighbor's TV installation, which is a 4-stack bi-conical rotary beam, 50' from my antenna, feeding thence into the Dumont T.V. Receiver. On no band, including 10 X phone, could my signals be detected while

tuning for WSB-TV on Channel 2, or for WBT-TV on Channel 3. Each of these stations is located approximately 150 airline miles from here, in Atlanta and Charlotte, respectively. A Drake 300 ohm "Hi-pass" filter was placed in the TV antenna leadin, but was really not necessary. I might mention that while testing on Channel 2, with full gain on the TV receiver and preamp, the WSB-TV signal was so weak that the set would not "lock" on it. A strong TV signal in this locality will only run about 50 UV.

As you know, I had complete success with your 32V-1/75A-1 combination in Turkey, and on being ordered to this location knew my 2 Kilowatt rigs (homemade) would never be satisfactory under prevailing TV conditions here. Your 32V-3 (with 35C-2 filter) and 75A2 allow me to continue my 35 years as an active ham.

Thankfully,
/s/ FRED

For excellence in amateur communications, it's . . .

COLLINS RADIO COMPANY, Cedar Rapids, Iowa

11 W. 42nd St., NEW YORK 18

1930 Carpenter Blvd., DALLAS 2



2700 W. Olive Ave., BURBANK

RADIO AMATEUR CALL BOOK

MAGAZINE

It will be noted that we are again accepting bold face listings in the CALL BOOK.

You can have your QTH in bold face type for a full year for five dollars. We allow three lines at this price and charge \$1.00 for each additional line.

No commercial affiliation or trade reference will be accepted and your copy must be confined to your call letters, name, address or any nick name and slogan that you wish to run.

All reservations for the Winter 1952 edition must be mailed to Radio Amateur Call Book Inc., 608 South Dearborn St., Chicago 5, Illinois, U.S.A., on or before November first 1952, accompanied by your remittance for the number of years that you desire to have your QTH in bold face type.

W9TRD.

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VOLUME 30

NUMBER 3

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**RADIO AMATEUR CALL BOOK**  
(Incorporated)

608 South Dearborn Street  
CHICAGO 5, ILLINOIS, U. S. A.  
PHONE WABASH 2-1903

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*Editor*

**MRS. CHARLES O. STIMPSON**

*Founder and Publisher*

**CHARLES O. STIMPSON**  
W9TRD

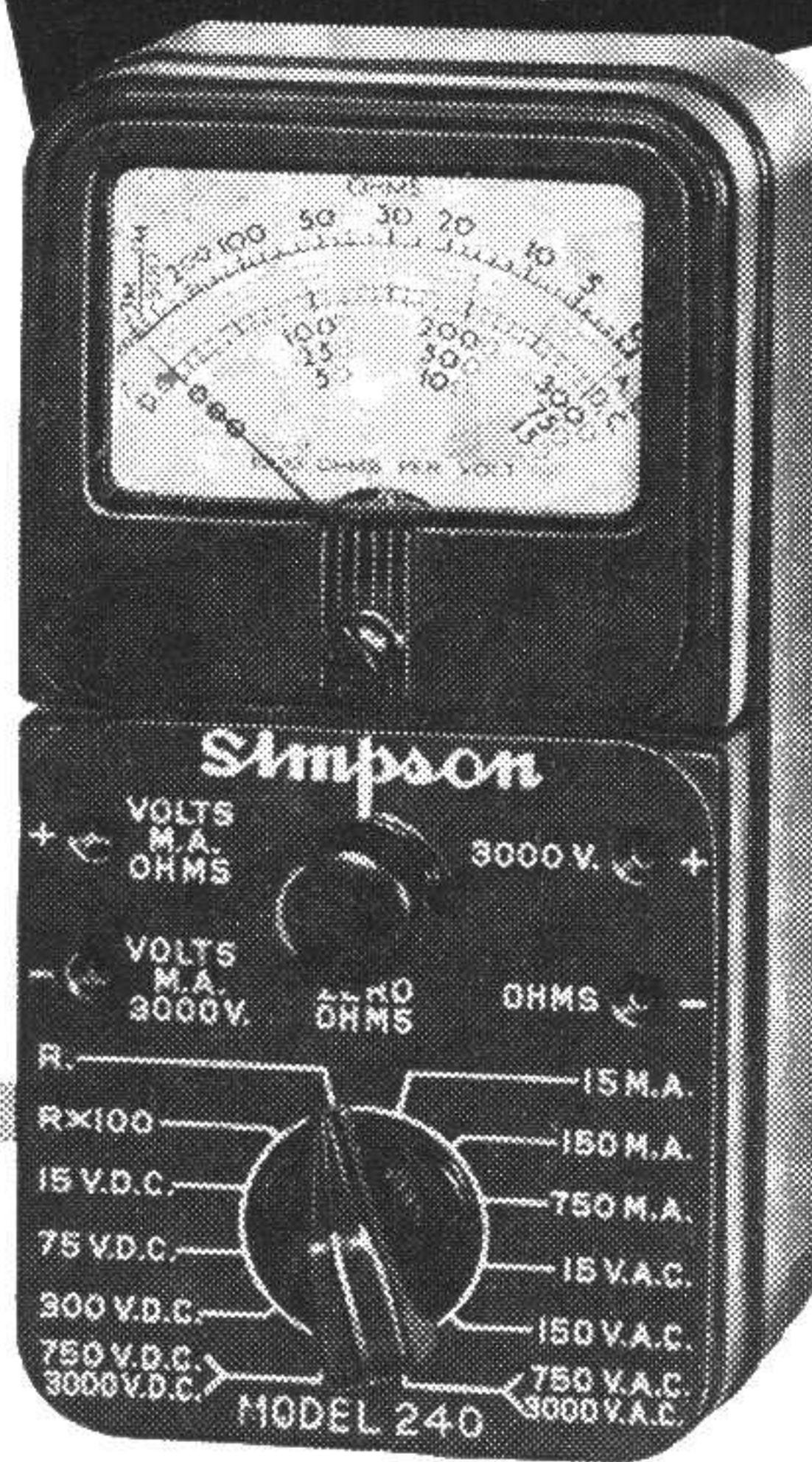
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| Includes the States of Delaware, Maryland, Pennsylvania, and the District of Columbia.                                                                               |     |
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*W. Ben Wimberly  
(W9IXD)*

well-known amateur says: "For quick, accurate trouble shooting around my ham shack, the Simpson Model 240 Hammeter is indispensable. I've used Simpson equipment for many years."



**RANGES: Model 240**

**AC VOLTS:** 0-15, 150, 750, 3000  
(1000 ohms per volt)

**DC VOLTS:** 0-15, 75, 300, 750, 3000  
(1000 ohms per volt)

**DC MILLIAMPERES:** 0-15, 150, 750

**OHMS:** 0-3000 (center scale 30)  
0-300,000 (center scale 3000)

**ACCURACY:** DC 3%—AC 5%

**SIZE:** 3" x 5 7/8" x 2 1/2".

**WEIGHT:** 1 1/4 lbs.

**SHIPPING WEIGHT:** 2 1/2 lbs.

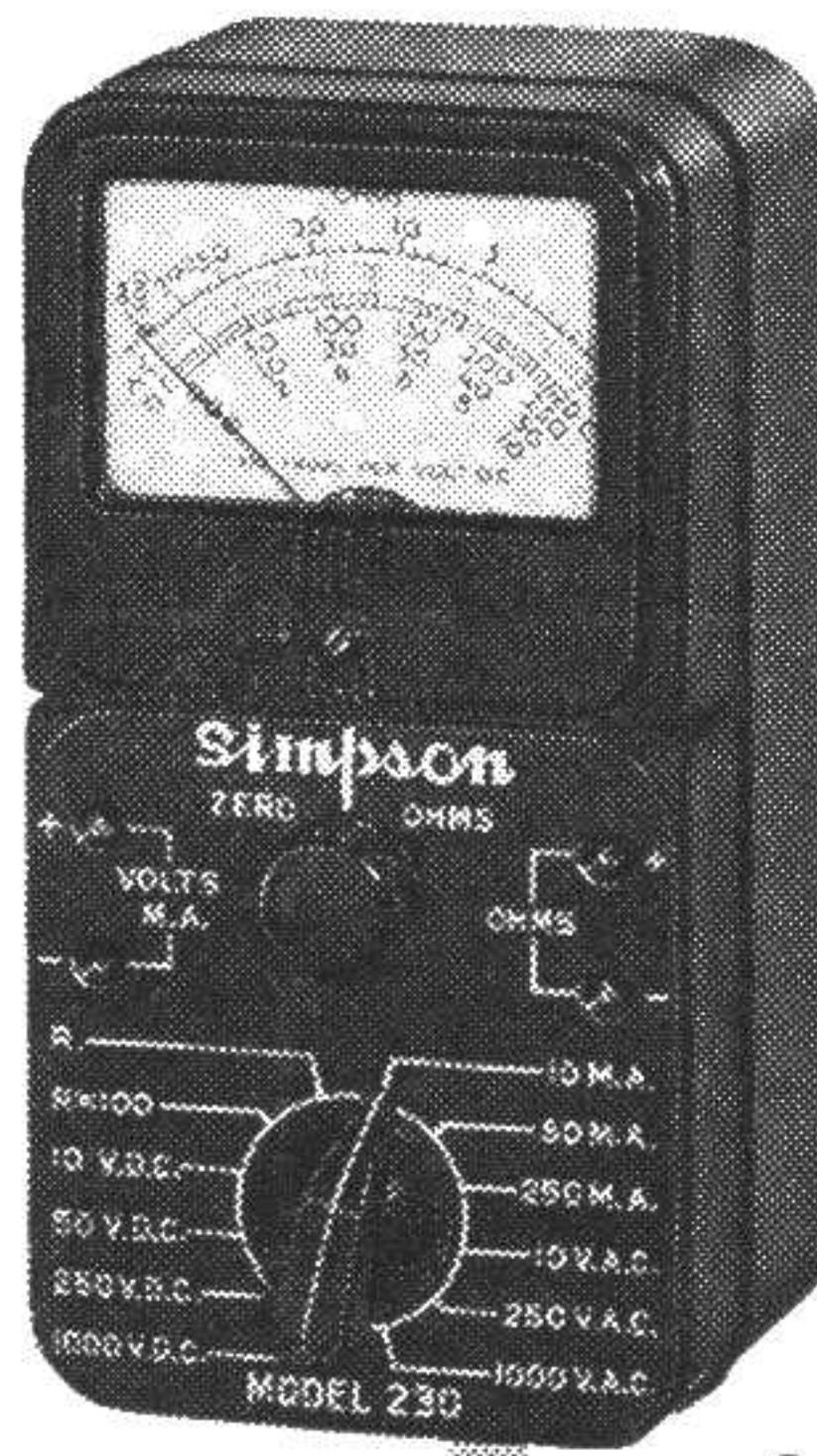
**AMATEUR'S NET PRICE . . .** \$24.60  
Leatherette Case . . . . . 5.00



**WORLD FAMOUS SIMPSON HAMMETER  
IS FIRST WITH RADIO AMATEURS**

The famous 240 Hammeter—named by the radio "ham"—is world renowned for its ruggedness and accuracy. It was designed for the additional voltage and sensitivity required in radio testing.

A favorite with "hams" because of its maximum voltage range of 3000 AC or DC, the 240 was the first self-contained pocket portable built expressly to check high voltage and all component parts of transmitters and receivers.



A worthy companion of the Hammeter is the Model 230 volt-ohm-milliammeter, with a maximum voltage of 1000 AC or DC. Its ranges are adequate for most line voltages, for telephone, teletype, and general purpose testing.

**RANGES: Model 230**

**AC VOLTS:** 0-10, 250, 1000 (400 ohms per volt)

**DC VOLTS:** 0-10, 50, 250, 1000 (1000 ohms per volt)

**DC MILLIAMPERES:** 0-10, 50, 250

**OHMS:** 0-1000, 0-100,000

**ACCURACY:** DC 3%—AC 5%

**SIZE:** 3" x 5 7/8" x 2 1/2"

**WEIGHT:** 1 1/4 lbs.

**SHIPPING WEIGHT:** 3 lbs.

**AMATEUR'S NET PRICE . . . . .** \$23.40

Leatherette Case . . . . . 5.00

**Simpson**  
INSTRUMENTS THAT STAY ACCURATE

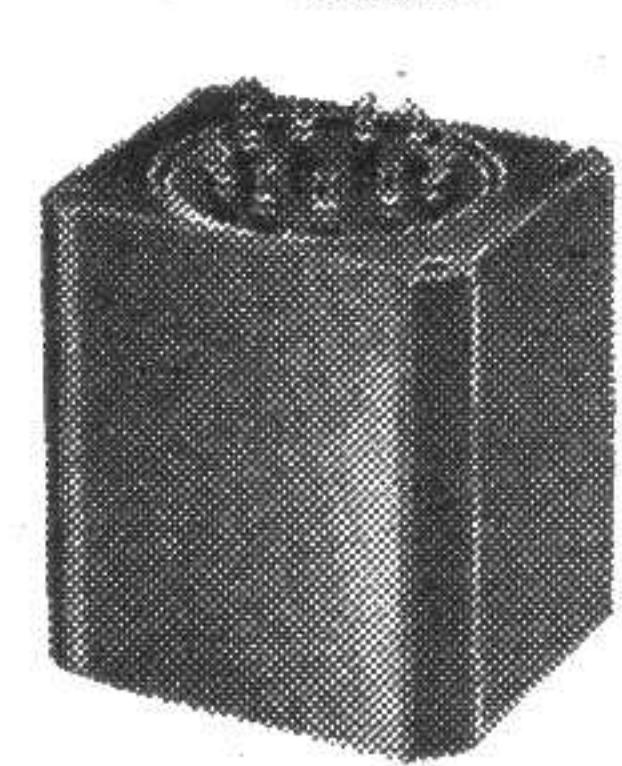
**SIMPSON ELECTRIC COMPANY**

5200-18 WEST KINZIE STREET, CHICAGO 44, ILLINOIS

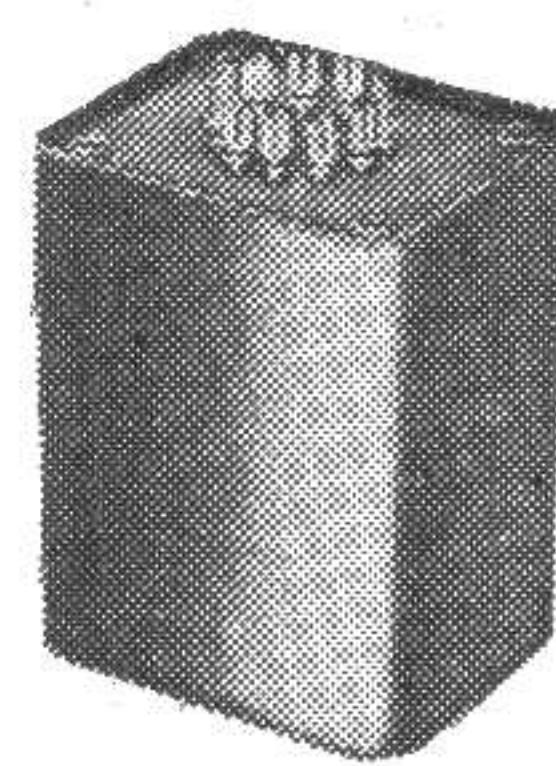
In Canada: Bach-Simpson Ltd., London, Ontario



## COMPONENTS FOR EVERY APPLICATION



**LINEAR STANDARD**  
High Fidelity Ideal



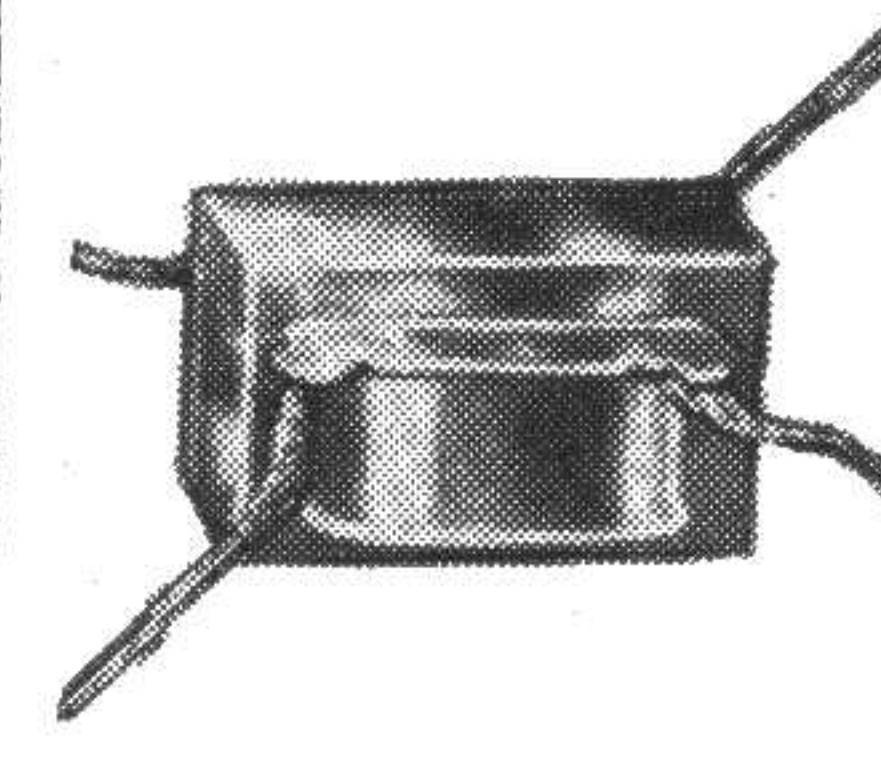
**HIPERM ALLOY**  
High Fidelity . . . Compact



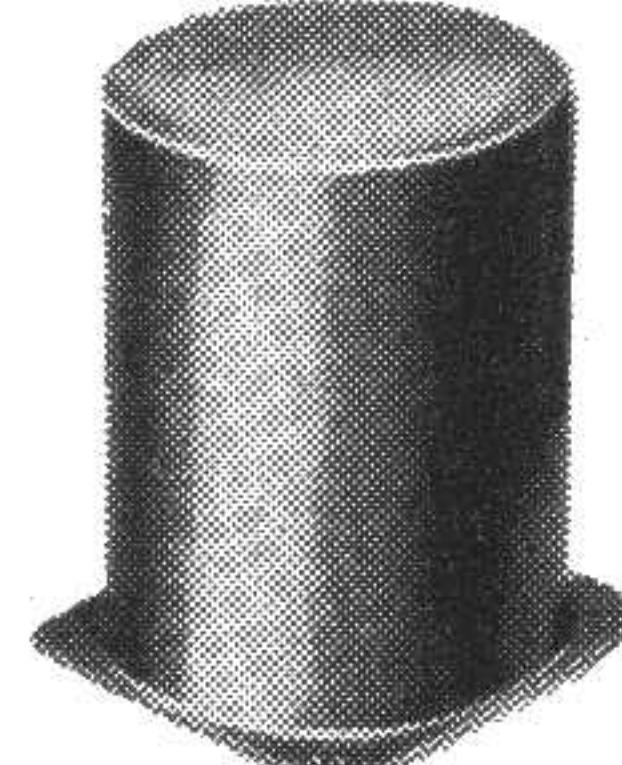
**ULTRA COMPACT**  
Portable . . . High Fidelity



**OUNCER**  
Wide Range . . . 1 ounce



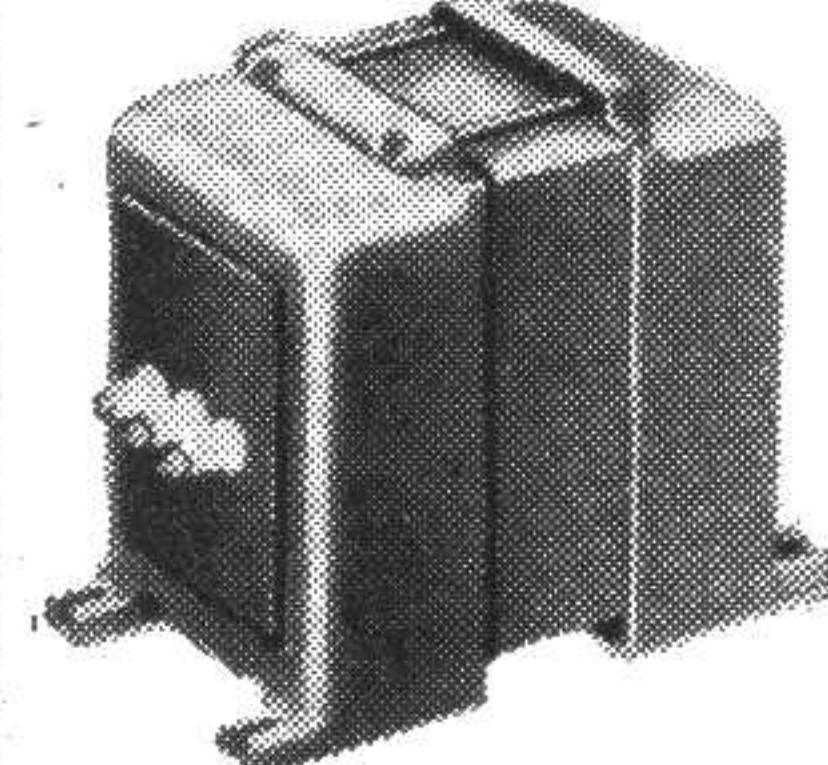
**SUB OUNCER**  
Weight  $\frac{1}{3}$  ounce



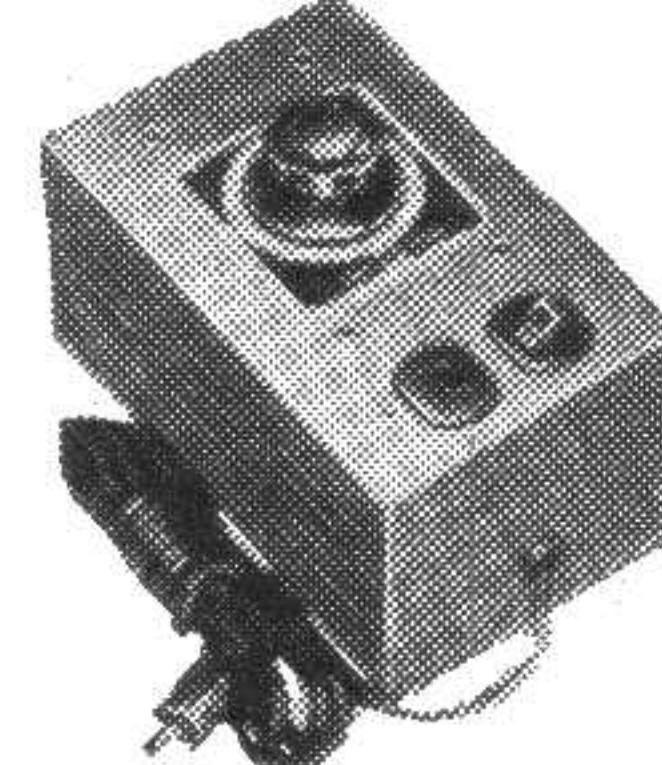
**COMMERCIAL GRADE**  
Industrial Dependability



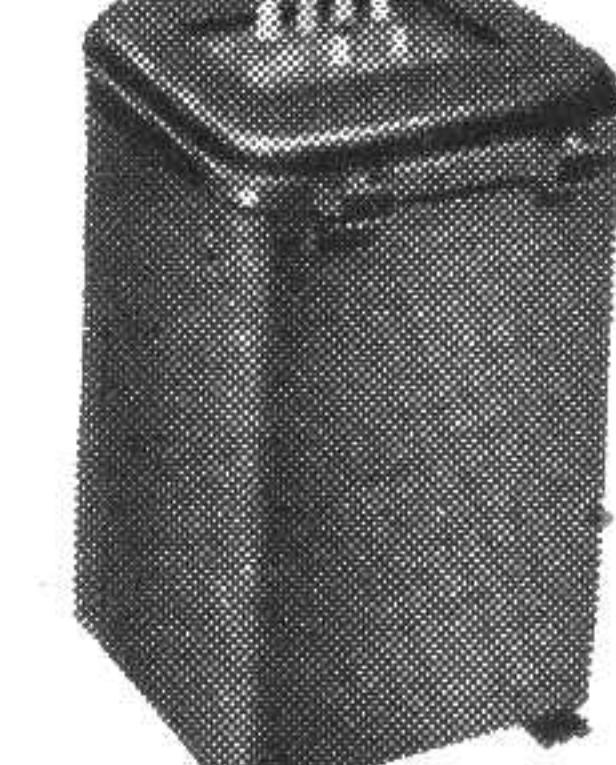
**SPECIAL SERIES**  
Quality for the "Ham"



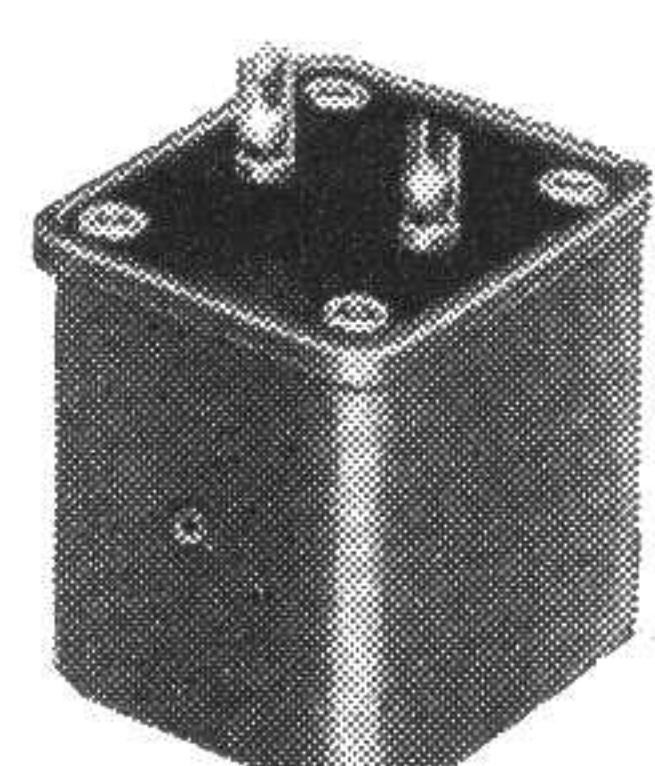
**POWER COMPONENTS**  
Rugged . . . Dependable



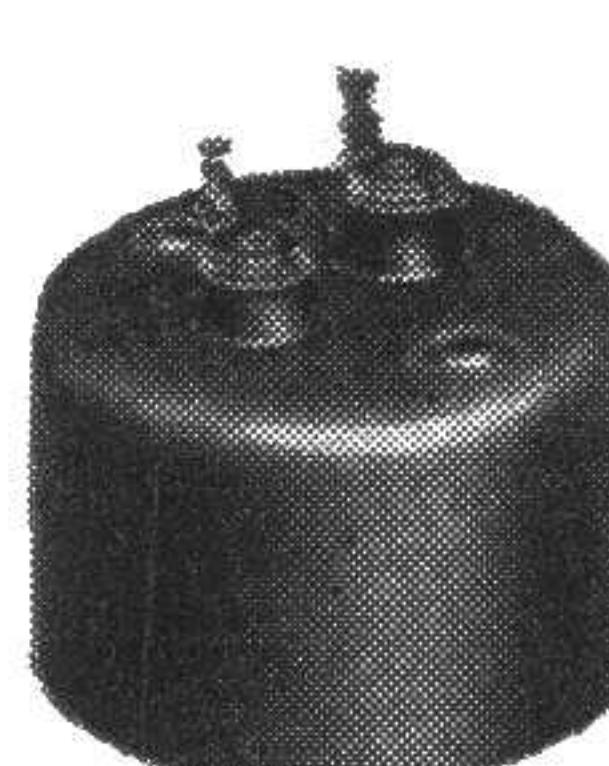
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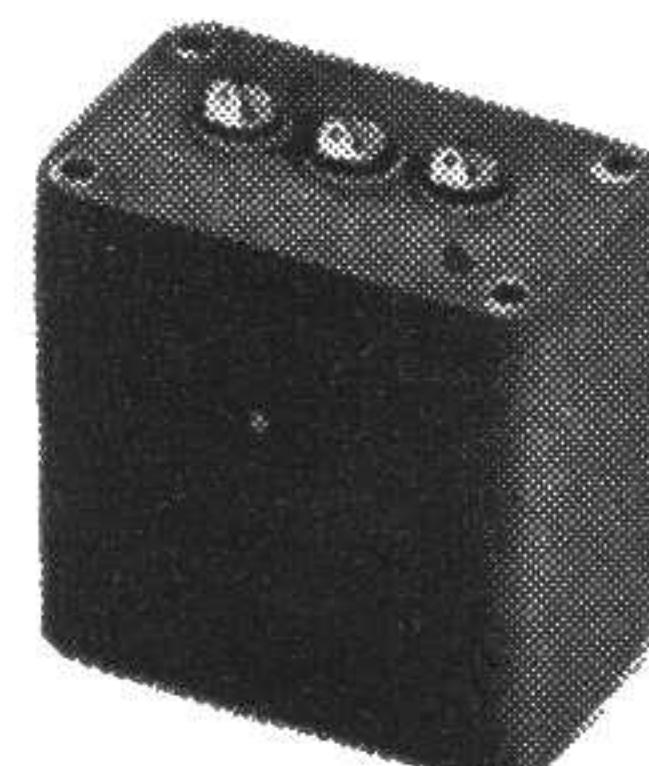
**MODULATION UNITS**  
One watt to 100KW



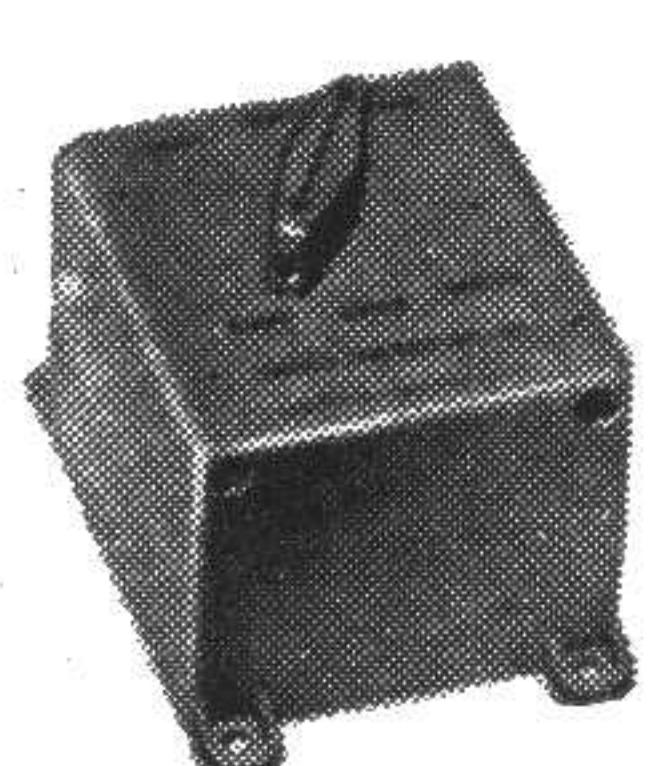
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Adjust like a Trimmer



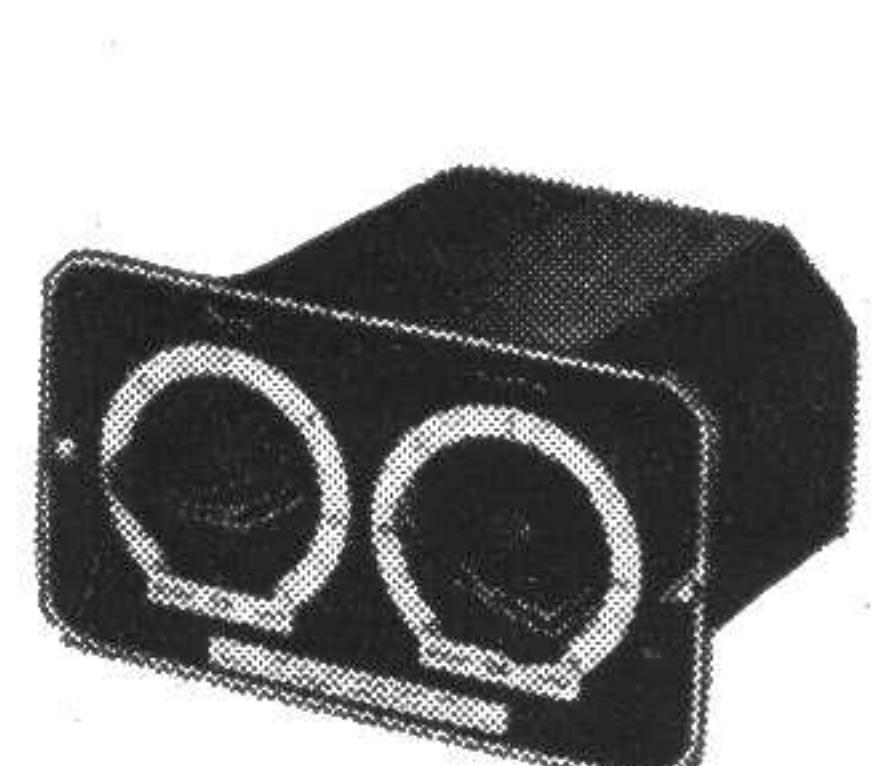
**TOROID HIGH Q COILS**  
Accuracy . . . Stability



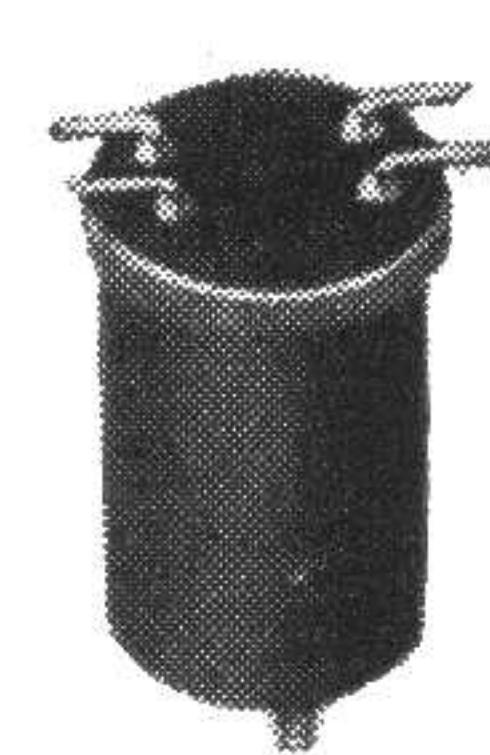
**TOROID FILTERS**  
Any type to 300KC



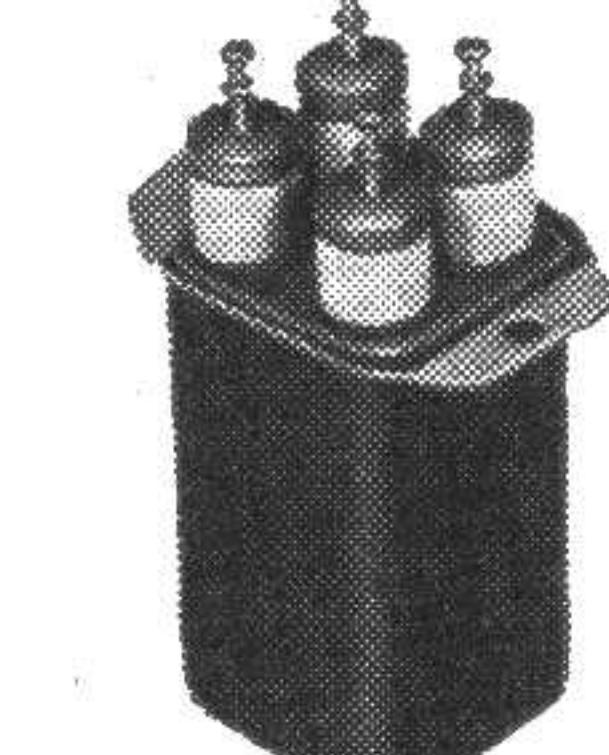
**MU-CORE FILTERS**  
Any type  $\frac{1}{2}$  - 10,000 cyc.



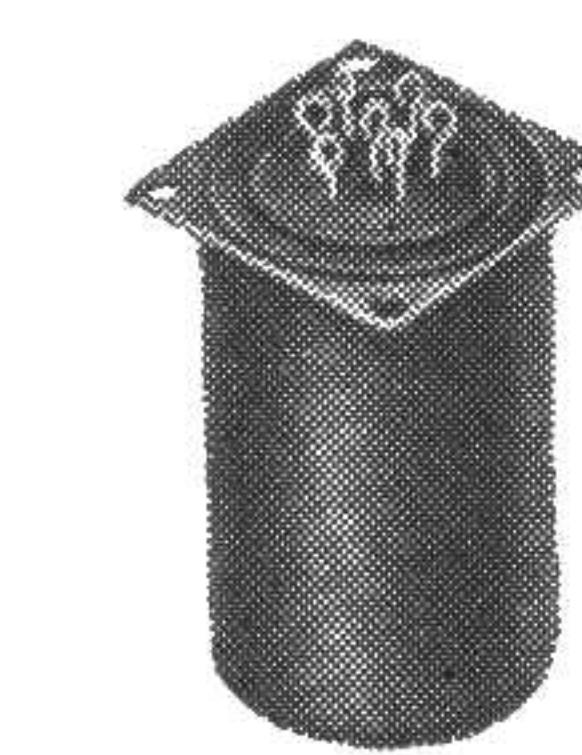
**EQUALIZERS**  
Broadcast & Sound



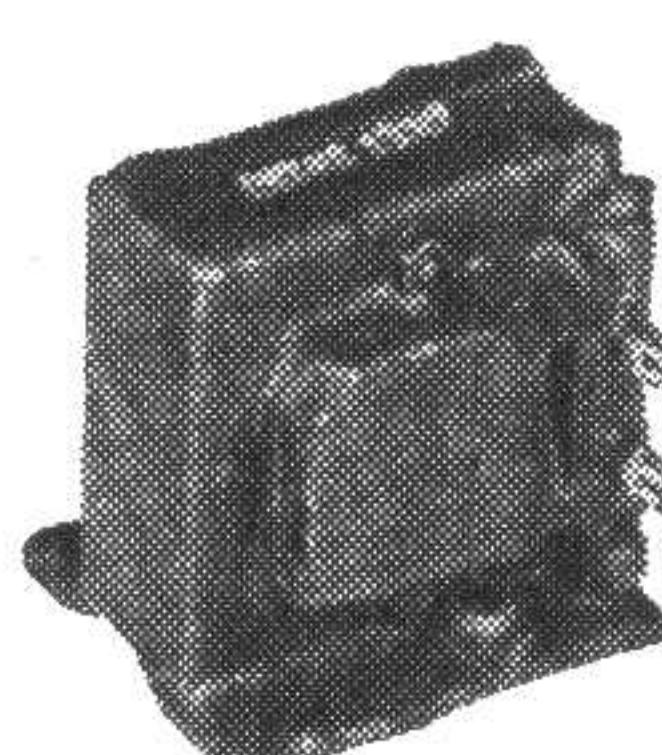
**PULSE TRANSFORMERS**  
For all Services



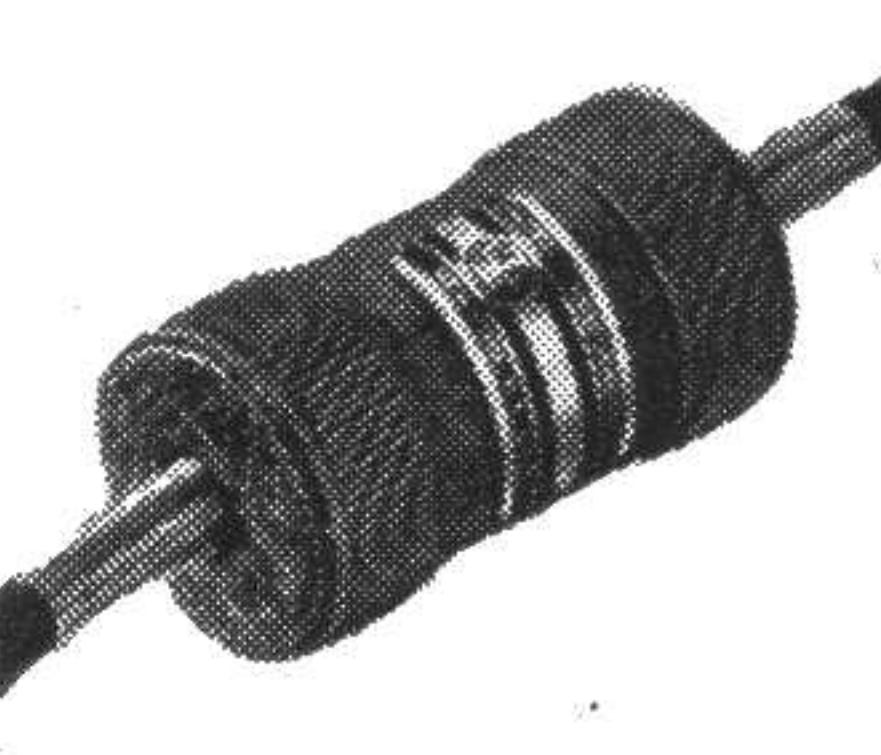
**HERMETIC COMPONENTS**  
Ceramic Terminals



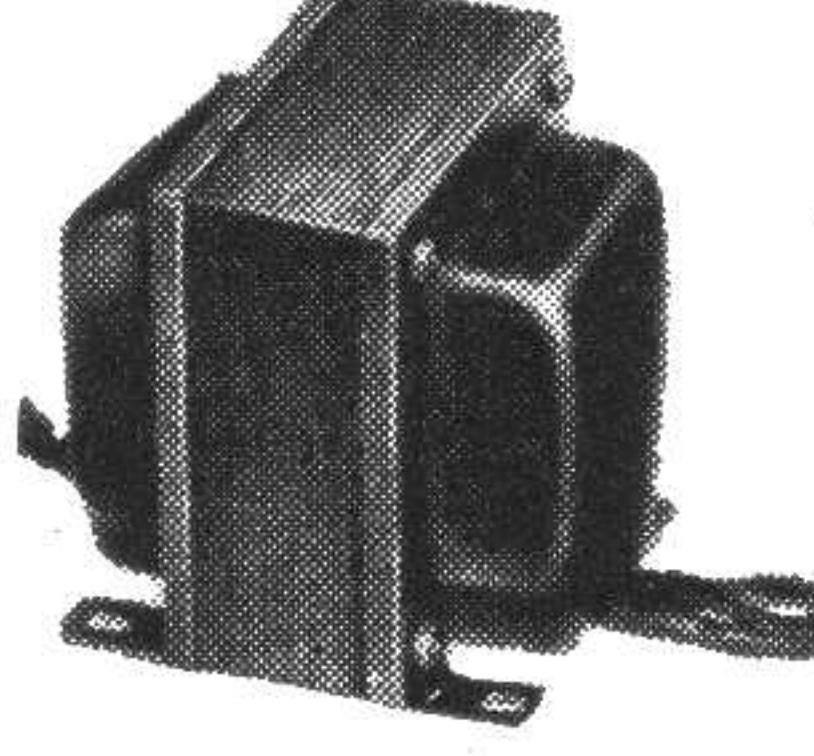
**HERMETIC COMPONENTS**  
Glass Terminals



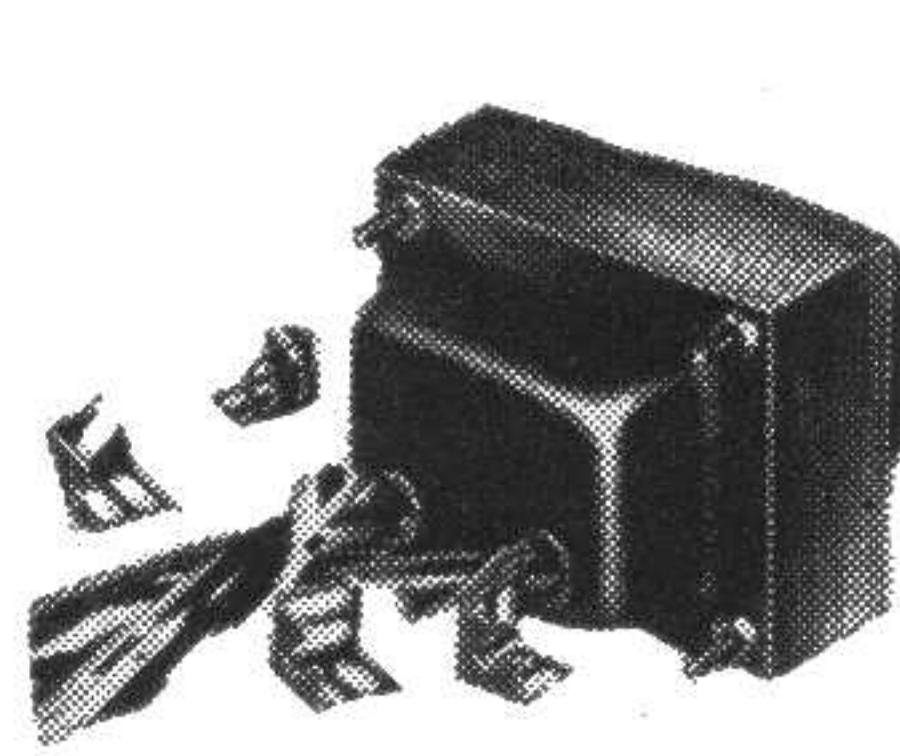
**GRADE 3 JAN**  
Components



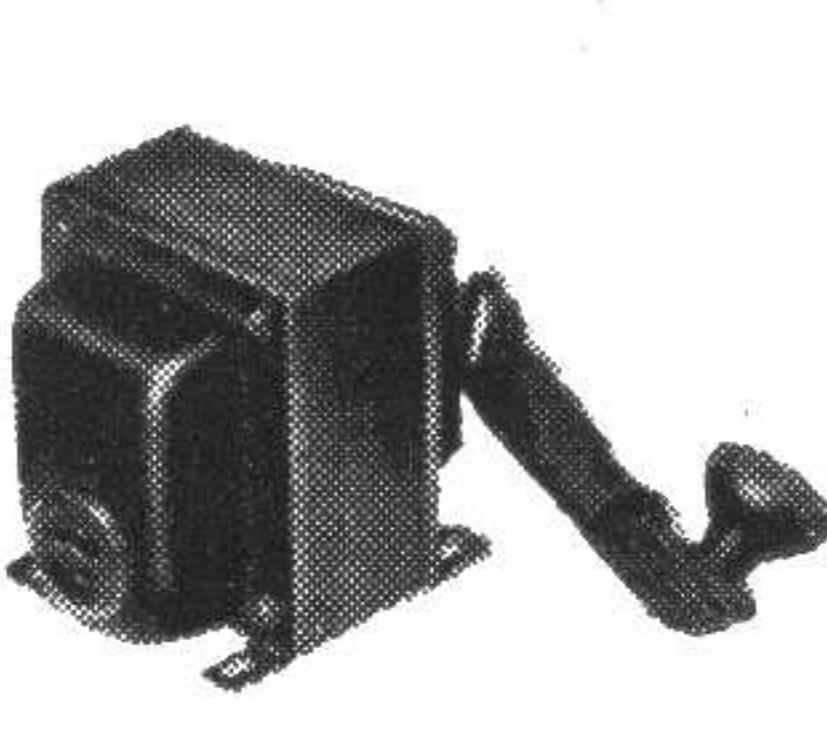
**CABLE TYPE**  
For mike cable line



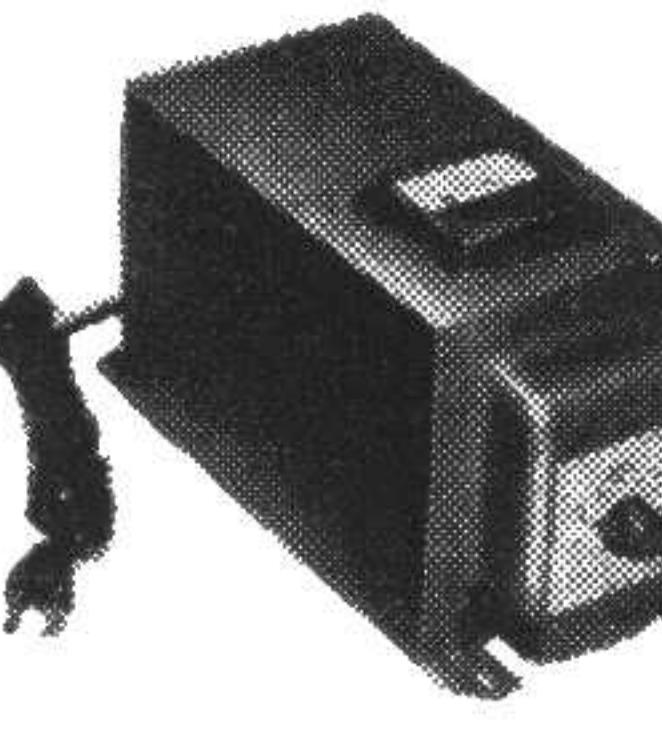
**VERTICAL SHELLS**  
Husky . . . Inexpensive



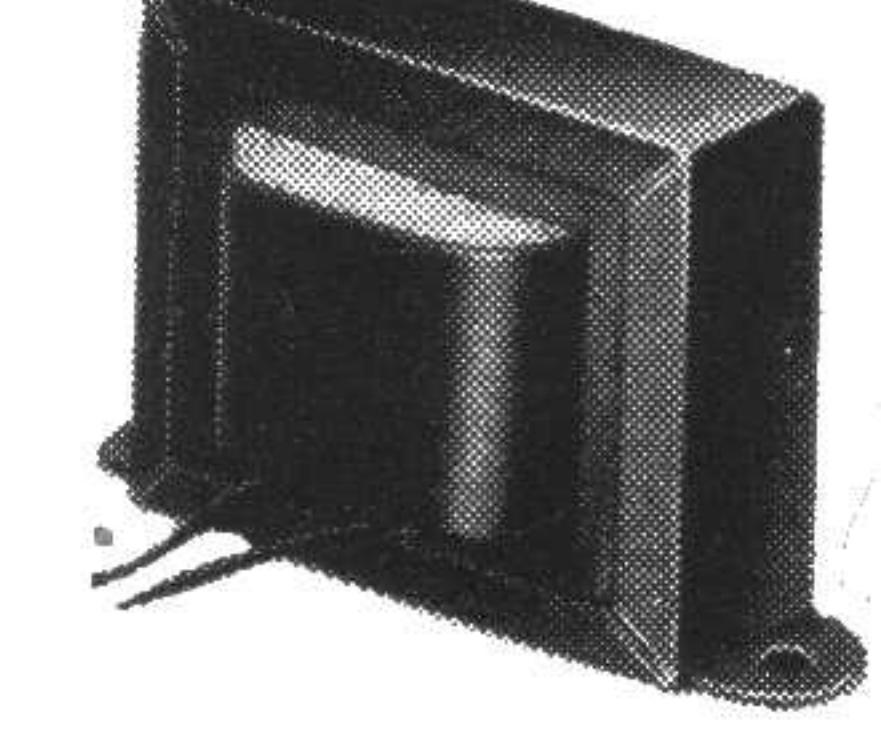
**REPLACEMENT**  
Universal Mounting



**STEP-DOWN**  
Up to 2500W . . . Stock



**LINE ADJUSTORS**  
Match any line voltage



**CHANNEL FRAME**  
Simple . . . Low cost

*United Transformer Co.*

150 VARICK STREET

NEW YORK 13, N.Y.

EXPORT DIVISION: 13 EAST 40th STREET, NEW YORK 16, N.Y., CABLES: "ARLAB"



## POLYETHYLENE DIELECTRIC RG TYPE COAXIAL CABLES

Here are the answers to your questions about coaxial cable,—from Amphenol's engineering radio amateurs. Use this chart for your own design work and to answer the questions of fellow hams. And, for continuity, minimum loss and assurance of lasting performance—specify Amphenol Cable!

| STANDARD JACKET             |                    | †LOW TEMP.<br>BLACK JACKET         |                    | IMPEDANCE<br>IN<br>OHMS | O. D.<br>OF<br>ARMOR | JACKET<br>DIAM-<br>ETER | VINYL<br>JACKET | SHIELDS<br>1st 2nd | O. D. OF<br>DIELECTRIC | INNER<br>CONDUCTOR | V. P.<br>PER<br>CENT | CAP.<br>MMFD<br>/FT. | MAX.<br>OPER.<br>VOLTS-RMS |
|-----------------------------|--------------------|------------------------------------|--------------------|-------------------------|----------------------|-------------------------|-----------------|--------------------|------------------------|--------------------|----------------------|----------------------|----------------------------|
| MILITARY<br>NUMBER<br>RG-/U | AMPHENOL<br>NUMBER | SIGNAL<br>CORPS<br>NUMBER<br>RG-/U | AMPHENOL<br>NUMBER |                         |                      |                         |                 |                    |                        |                    |                      |                      |                            |
| 5                           | 21-001             |                                    |                    | 52.5                    |                      | .332                    | Black           | C C                | .185                   | 16                 | 65.9                 | 28.5                 | 3000                       |
| 5A                          | 21-271             | 58                                 | 21-294             | 50                      |                      | .328                    | Grey            | S S                | .181                   | 16S                | 65.9                 | 29                   | 3000                       |
| 6                           | 21-002             | 6A                                 | 21-330             | 76                      |                      | .332                    | Grey            | S C                | .185                   | 21CW               | 65.9                 | 20                   | 2700                       |
| 7                           | 21-003             |                                    |                    | 97                      |                      | .370                    | Black           | C —                | .250*                  | 19                 | 84                   | 12.5                 | 1000                       |
| 8                           | 21-004             | 8A                                 | 21-290             | 52                      |                      | .405                    | Black           | C —                | .285                   | 7/21               | 65.9                 | 29.5                 | 4000                       |
| 9                           | 21-005             |                                    |                    | 51                      |                      | .420                    | Grey            | S C                | .280                   | 7/21S              | 65.9                 | 30                   | 4000                       |
| 9A                          | 21-231             | 9B                                 | 21-332             | 51                      |                      | .420                    | Grey            | S S                | .280                   | 7/21S              | 65.9                 | 30                   | 4000                       |
| 10                          | 21-006             | 10A                                | 21-338             | 52                      | .475                 | .405                    | Grey            | C —                | .285                   | 7/21               | 65.9                 | 29.5                 | 4000                       |
| 11                          | 21-007             | 11A                                | 21-296             | 75                      |                      | .405                    | Black           | C —                | .285                   | 7/26T              | 65.9                 | 20.5                 | 4000                       |
| 12                          | 21-008             | 12A                                | 21-340             | 75                      | .475                 | .405                    | Grey            | C —                | .285                   | 7/26T              | 65.9                 | 20.5                 | 4000                       |
| 13                          | 21-009             | 13A                                | 21-334             | 74                      |                      | .420                    | Black           | C C                | .280                   | 7/26T              | 65.9                 | 20.5                 | 4000                       |
| 14                          | 21-010             | 14A                                | 21-336             | 52                      |                      | .545                    | Grey            | C C                | .370                   | 10                 | 65.9                 | 29.5                 | 5500                       |
| 15                          | 21-011             |                                    |                    | 76                      |                      | .545                    | Black           | C C                | .370                   | 15CW               | 65.9                 | 20                   | 5000                       |
| 17                          | 21-013             | 17A                                | 21-298             | 52                      |                      | .870                    | Grey            | C —                | .680                   | .188               | 65.9                 | 29.5                 | 11000                      |
| 18                          | 21-014             | 18A                                | 21-300             | 52                      | .945                 | .870                    | Grey            | C —                | .680                   | .188               | 65.9                 | 29.5                 | 11000                      |
| 19                          | 21-015             | 19A                                | 21-303             | 52                      |                      | 1.120                   | Grey            | C —                | .910                   | .250               | 65.9                 | 29.5                 | 14000                      |
| 20                          | 21-016             | 20A                                | 21-305             | 52                      | 1.195                | 1.120                   | Grey            | C —                | .910                   | .250               | 65.9                 | 29.5                 | 14000                      |
| 21                          | 21-017             | 21A                                | 21-308             | 53                      |                      | .332                    | Grey            | S S                | .185                   | 16N                | 65.9                 | 29                   | 2700                       |
| 22                          | 21-038             |                                    |                    | 95                      |                      | .405                    | Black           | T —                | .285                   | Two 7/.0152        | 65.9                 | 16                   | 1000                       |
| 22A                         | 21-148             | 22B                                | 21-310             | 95                      |                      | .420                    | Grey            | T T                | .285                   | Two 7/.0152        | 65.9                 | 16                   | 1000                       |
| 29                          | 21-018             |                                    |                    | 53.5                    |                      | .184                    | Poly            | T —                | .116                   | 20                 | 65.9                 | 28.5                 | 1900                       |
| 34                          | 21-019             | 34A                                | 21-429             | 71                      |                      | .625                    | Black           | C —                | .455                   | 7/21               | 65.9                 | 21.5                 | 5200                       |
| 35                          | 21-020             | 35A                                | 21-311             | 71                      | .945                 | .870                    | Grey            | C —                | .680                   | 9                  | 65.9                 | 21.5                 | 10000                      |
| 42                          | 21-021             |                                    |                    | 78                      |                      | .342                    | Grey            | S S                | .196                   | 21N                | 65.9                 | 20                   | 2700                       |
| 54A                         | 21-022             |                                    |                    | 58                      |                      | .250                    | Poly            | T —                | .178                   | 7/.0152            | 65.9                 | 26.5                 | 3000                       |
| 55                          | 21-023             |                                    |                    | 53.5                    |                      | .206                    | Poly            | T T                | .116                   | 20                 | 65.9                 | 28.5                 | 1900                       |
| 57                          | 21-039             | 57A                                | 21-313             | 95                      |                      | .625                    | Black           | T —                | .472                   | Two 7/21           | 65.9                 | 17                   | 3000                       |
| 58                          | 21-024             |                                    |                    | 53.5                    |                      | .195                    | Black           | T —                | .116                   | 20                 | 65.9                 | 28.5                 | 1900                       |
| 58A                         | 21-199             | 58C                                | 21-316             | 50                      |                      | .195                    | Black           | T —                | .116                   | 19/.0068           | 65.9                 | 29                   | 1900                       |
| 59                          | 21-025             | 59A                                | 21-291             | 73                      |                      | .242                    | Black           | C —                | .146                   | 22CW               | 65.9                 | 21                   | 2300                       |
| 62                          | 21-026             | 62A                                | 21-318             | 93                      |                      | .242                    | Black           | C —                | .146*                  | 22CW               | 84                   | 13.5                 | 750                        |
| 63                          | 21-027             | 63B                                | 21-320             | 125                     |                      | .405                    | Black           | C —                | .285*                  | 22CW               | 84                   | 10                   | 1000                       |
| 71                          | 21-029             |                                    |                    | 93                      |                      | .250                    | Poly            | T T                | .146*                  | 22CW               | 84                   | 13.5                 | 750                        |
| 74                          | 21-041             | 74A                                | 21-321             | 52                      | .615                 | .545                    | Grey            | C C                | .370                   | 10                 | 65.9                 | 29.5                 | 5500                       |
| 79                          | 21-070             | 79B                                | 21-325             | 125                     | .475                 | .405                    | Black           | C —                | .285*                  | 22CW               | 84                   | 10                   | 1000                       |
| 83                          | 21-180             |                                    |                    | 35                      |                      | .405                    | Black           | C —                | .240                   | 10                 | 65.9                 | 44                   | 2000                       |
| 89                          | 21-253             |                                    |                    | 125                     |                      | .632                    | Black           | C —                | .285*                  | 22CW               | 84                   | 10                   | 1000                       |
| 108                         | 21-261             | 108A                               | 21-327             | 76                      |                      | .235                    | Black           | T —                | .073Ea.                | Two 7/28           |                      | 23                   | 1000                       |
| 111                         | 21-255             | 111A                               | 21-329             | 95                      | .490                 | .420                    | Grey            | T T                | .285                   | Two 7/.0152        | 65.9                 | 16                   | 1000                       |
|                             | 21-125             |                                    |                    | 71                      |                      | .870                    | Grey            | C —                | .680                   | 9                  | 65.9                 | 21.5                 | 10000                      |
| 114                         | 21-440             |                                    |                    | 185                     |                      | .405                    | Black           | C —                | .285*                  | 33CW               | 86                   | 6.5                  | 1000                       |
| 122                         | 21-441             |                                    |                    | 50                      |                      | .160                    | Black           | T —                | .096                   | 27/36T             | 65.9                 | 29.3                 | 1900                       |
|                             |                    | 125                                | 21-442             | 150                     |                      | .600                    |                 | C —                | .460*                  | 26CW               | 84                   | 7.8                  | 1000                       |
| 130                         | 21-436             |                                    |                    | 95                      |                      | .625                    | Black           | T —                | .472                   | Two 7/21           | 65.9                 | 17                   | 3000                       |
| 131                         | 21-437             |                                    |                    | 95                      | .710                 | .625                    | Black           | T —                | .472                   | Two 7/21           | 65.9                 | 17                   | 3000                       |

\*Semi-solid dielectric      C—Copper      CW—Copperweld      S—Silvered copper      T—Tinned copper      N—Nichrome

OHMS      35 OHMS

OHMS      50 to 58 OHMS

OHMS      71 to 78 OHMS

OHMS      90 to 185 OHMS

# INTERNATIONAL RADIO AMATEUR PREFIXES

The following prefixes are listed in alphabetical order for convenience in locating the country when DX calls are heard.

|       |                                                     |           |                                                      |        |                                                         |
|-------|-----------------------------------------------------|-----------|------------------------------------------------------|--------|---------------------------------------------------------|
| AC3   | SIKKIM                                              | KG6       | MARIANA ISLANDS (Guam)                               | VK     | AUSTRALIA                                               |
| AC4   | TIBET                                               | KG6I      | IWO JIMA ISLAND                                      | VK7    | TASMANIA                                                |
| AG2   | TRIESTE (American)                                  | KG6S      | SAIPAN ISLAND                                        | VK9    | PAPUA TERRITORY                                         |
| AP    | PAKISTAN                                            | KG6T      | TINIAN ISLAND                                        | VO     | NEWFOUNDLAND & LABRADOR                                 |
| C     | CHINA                                               | KH6       | HAWAIIAN ISLANDS                                     | VP1    | BRITISH HONDURAS                                        |
| CE    | CHILE                                               | KJ6       | JOHNSTON ISLAND                                      | VP2    | LEEWARD & WINDWARD ISLANDS                              |
| CM-CO | CUBA                                                | KL7       | ALASKA                                               | VP3    | BRITISH GUIANA                                          |
| CN2   | TANGIER ZONE                                        | KM6       | MIDWAY ISLAND                                        | VP4    | TRINIDAD & TOBAGO IS.                                   |
| CN8   | FRENCH MOROCCO                                      | KP4       | PUERTO RICO                                          | VP5    | JAMAICA, CAYMAN, TURKS & CAICOS IS.                     |
| CP    | BOLIVIA                                             | KP6       | PALMYRA & JARVIS ISLANDS                             | VP6    | BARBADOS                                                |
| CR4   | CAPE VERDE ISLANDS                                  | KR6       | OKINAWA                                              | VP7    | BAHAMA ISLANDS                                          |
| CR5   | PORTUGUESE GUINEA                                   | KS4       | SWAN ISLAND                                          | VP8    | FALKLAND ISLANDS                                        |
| CR6   | ANGOLA                                              | KS6       | U. S. SAMOA                                          |        | South Georgia, South Orkney and South Shetland Islands. |
| CR7   | MOZAMBIQUE                                          | KV4       | VIRGIN ISLANDS                                       | VP9    | BERMUDA ISLANDS                                         |
| CR8   | GOA (Portuguese India)                              | KW6       | WAKE ISLAND                                          | VQ1    | ZANZIBAR                                                |
| CR9   | MACAU                                               | KX6       | MARSHALL ISLANDS                                     | VQ2    | NORTHERN RHODESIA                                       |
| CR10  | TIMOR ISLAND (Port.)                                | KZ5       | CANAL ZONE                                           | VQ3    | TANGANYIKA TERRITORY                                    |
| CT1   | PORTUGAL                                            | LA        | NORWAY                                               | VQ4    | KENYA                                                   |
| CT2   | AZORES ISLANDS                                      | LU        | ARGENTINA                                            | VQ5    | UGANDA                                                  |
| CT3   | MADERIA ISLANDS                                     | LX        | LUXEMBOURG                                           | VQ6    | BRITISH SOMALILAND                                      |
| CX    | URUGUAY                                             | LZ        | BULGARIA                                             | VQ8    | CHAGOS & MAURITIUS ISLANDS                              |
| DL    | GERMANY                                             | MB9       | AUSTRIA                                              | VQ9    | SEYCHELLES                                              |
| DU    | PHILIPPINE ISLANDS                                  | MD4       | SOMALIA                                              | VR1    | GILBERT ELLICE & OCEAN ISLANDS                          |
| EA    | SPAIN                                               | MD5       | SUEZ CANAL ZONE                                      | VR2    | FIJI ISLANDS                                            |
| EA6   | BALEARIC ISLANDS                                    | MD6       | IRAQ                                                 | VR3    | FANNG ISLAND                                            |
| EA8   | CANARY ISLANDS                                      | MF2       | TRIESTE (British)                                    | VR4    | SOLOMON ISLANDS                                         |
| EA9   | SPANISH MOROCCO                                     | MI3       | ERITREA                                              | VR5    | TONGA (Friendly) ISLAND                                 |
| EI    | IRELAND                                             | MP4       | BAHREIN IS. & OMAN                                   | VR6    | PITCAIRN ISLAND                                         |
| EL    | LIBERIA                                             | OA        | PERU                                                 | VS1    | SINGAPORE                                               |
| EQ    | IRAN (ex Persia)                                    | OH        | FINLAND                                              | VS2    | MALAYAN UNION                                           |
| ET    | ETHIOPIA                                            | OE        | AUSTRIA                                              | VS4    | BRITISH NORTH BORNEO                                    |
| F     | FRANCE                                              | OD5       | LEBANON                                              | VS5    | BRUNEI & SARAWAK                                        |
| FA    | ALGERIA                                             | OK        | CZECHOSLOVAKIA                                       | VS6    | HONG KONG                                               |
| FB8   | MADAGASCAR                                          | ON        | BELGIUM                                              | VS7    | CEYLON                                                  |
| FC    | CORSICA                                             | OQ5       | BELGIAN CONGO                                        | VS9    | ADEN & SOCOTRA ISLANDS                                  |
| FD8   | FRENCH TOGOLAND                                     | OX        | GREENLAND                                            | VU     | INDIA                                                   |
| FE8   | FRENCH CAMEROONS                                    | OY        | FAEROES ISLANDS                                      | VU4    | LACCADIVE ISLANDS                                       |
| FF8   | FRENCH WEST AFRICA                                  | OZ        | DENMARK                                              | VU5    | ANDAMAN ISLANDS                                         |
| FG8   | GAUDELOUPE                                          | PA, PI    | NETHERLANDS                                          | W      | UNITED STATES                                           |
| FI8   | FRENCH INDO-CHINA                                   | PJ        | NETH. WEST INDIES                                    | XE     | MEXICO                                                  |
| FKS   | FRENCH-AUSTRIA                                      | PK1, 2, 3 | JAVA                                                 | XZ     | BURMA                                                   |
| FK8   | NEW CALEDONIA                                       | PK4       | SUMATRA                                              | YA     | AFGHANISTAN                                             |
| FL8   | FRENCH SOMALILAND                                   | PK5       | BORNEO (Neth. Indies)                                | YI     | IRAQ                                                    |
| FM8   | MARTINIQUE                                          | PK6       | CELEBES & MOLUCCA ISLANDS                            | YJ     | NEW HEBRIDES                                            |
| FN    | FRENCH INDIA                                        | PK7       | NETHERLAND NEW GUINEA                                | YK     | SYRIA                                                   |
| FO8   | TAHITI                                              | PX        | ANDORRA                                              | YN     | NICARAGUA                                               |
| FP8   | MIQUELON & ST. PIERRE IS.                           | PY        | BRAZIL                                               | YO     | ROUMANIA                                                |
| FQ8   | FRENCH EQUATORIAL AFRICA                            | PZ        | SURINAM                                              | YS     | SALVADOR                                                |
| FR8   | REUNION ISLAND                                      | SM        | SWEDEN                                               | YT, YU | YUGOSLAVIA                                              |
| FU8   | NEW HEBRIDES                                        | SP        | POLAND                                               | YV     | VENEZUELA                                               |
| FY7   | FRENCH GUIANA                                       | ST        | SUDAN                                                | ZA     | ALBANIA                                                 |
| G     | ENGLAND                                             | SU        | EGYPT                                                | ZB1    | MALTA                                                   |
| GC    | CHANNEL ISLANDS                                     | SV        | CRETE & GREECE                                       | ZB2    | GIBALTAR                                                |
| GD    | ISLE OF MAN                                         | SV5       | DODECANESE ISLANDS                                   | ZC1    | TRANSJORDAN                                             |
| GI    | NORTHERN IRELAND                                    | TA        | TURKEY                                               | ZC2    | COCONUT ISLANDS                                         |
| GM    | SCOTLAND                                            | TF        | ICELAND                                              | ZC3    | CHRISTMAS ISLAND                                        |
| GW    | WALES                                               | TG        | GUATEMALA                                            | ZC4    | CYPRUS                                                  |
| HA    | HUNGARY                                             | TI        | COSTA RICA                                           | ZD1    | SIERRA LEONE                                            |
| HB    | SWITZERLAND                                         | TT        | TANNU TUVA                                           | ZD2    | NIGERIA                                                 |
| HC    | ECUADOR                                             | UA1-3-4-6 | EUROPEAN RUSSIAN SOCIALIST FEDERATED SOVIET REPUBLIC | ZD3    | GAMBIA                                                  |
| HEI   | LIECHTENSTEIN                                       | UA9-Ø     | ASIATIC RUSSIAN S. F. S. R.                          | ZD4    | GOLD COAST & TOGOLAND                                   |
| HH    | HAITI                                               | UB5       | UKRAINE                                              | ZD6    | NYASALAND                                               |
| HI    | DOMINICAN REPUBLIC                                  | UC5       | WHITE RUSSIAN S.S.R.                                 | ZD7    | SAINT HELENA                                            |
| HK    | COLOMBIAN REPUBLIC                                  | UD6       | AZERBAIJAN                                           | ZD8    | ASCENSION ISLAND                                        |
| HL1   | KOREA                                               | UF6       | GEORGIA                                              | ZD9    | TRISTAN DA CUNHA                                        |
| HP    | PANAMA                                              | UG6       | ARMENIA                                              | ZE     | SOUTHERN RHODESIA                                       |
| HK    | HONDURAS                                            | UH8       | TURKOMAN                                             | ZK1    | COOK ISLANDS                                            |
| HS    | SIAM                                                | UI8       | UZBEK                                                | ZK2    | NIUE                                                    |
| HV    | VATICAN CITY                                        | UJ8       | TADZHIK                                              | ZL     | NEW ZEALAND                                             |
| HZ    | SAUDI ARABIA                                        | UL7       | KAZAKH                                               | ZM     | WESTERN SAMOA                                           |
| I     | ITALY                                               | UMB       | KIRGHIZ                                              | ZP     | PARAGUAY                                                |
| K     | UNITED STATES                                       | UN1       | KARELO-FINNISH REPUBLIC                              | 3A2    | UNION OF SOUTH AFRICA                                   |
| KA    | JAPAN                                               | UO5       | MOLDAVIA                                             | 3V8    | MONACO                                                  |
| KB6   | BAKER, CANTON, ENDERBURY, HOWLAND & PHOENIX ISLANDS | UP        | LITHUANIA                                            | 4X4    | TUNISIA                                                 |
| KC4   | ANTARCTICA                                          | UQ        | LATVIA                                               | 5A2    | ISRAEL                                                  |
| KC6   | CAROLINE ISLANDS                                    | UR        | ESTONIA                                              | 9S4    | LIBYA                                                   |
| KG4   | GUANTANAMO BAY, CUBA                                | VE        | CANADA                                               |        | SAARLAND                                                |



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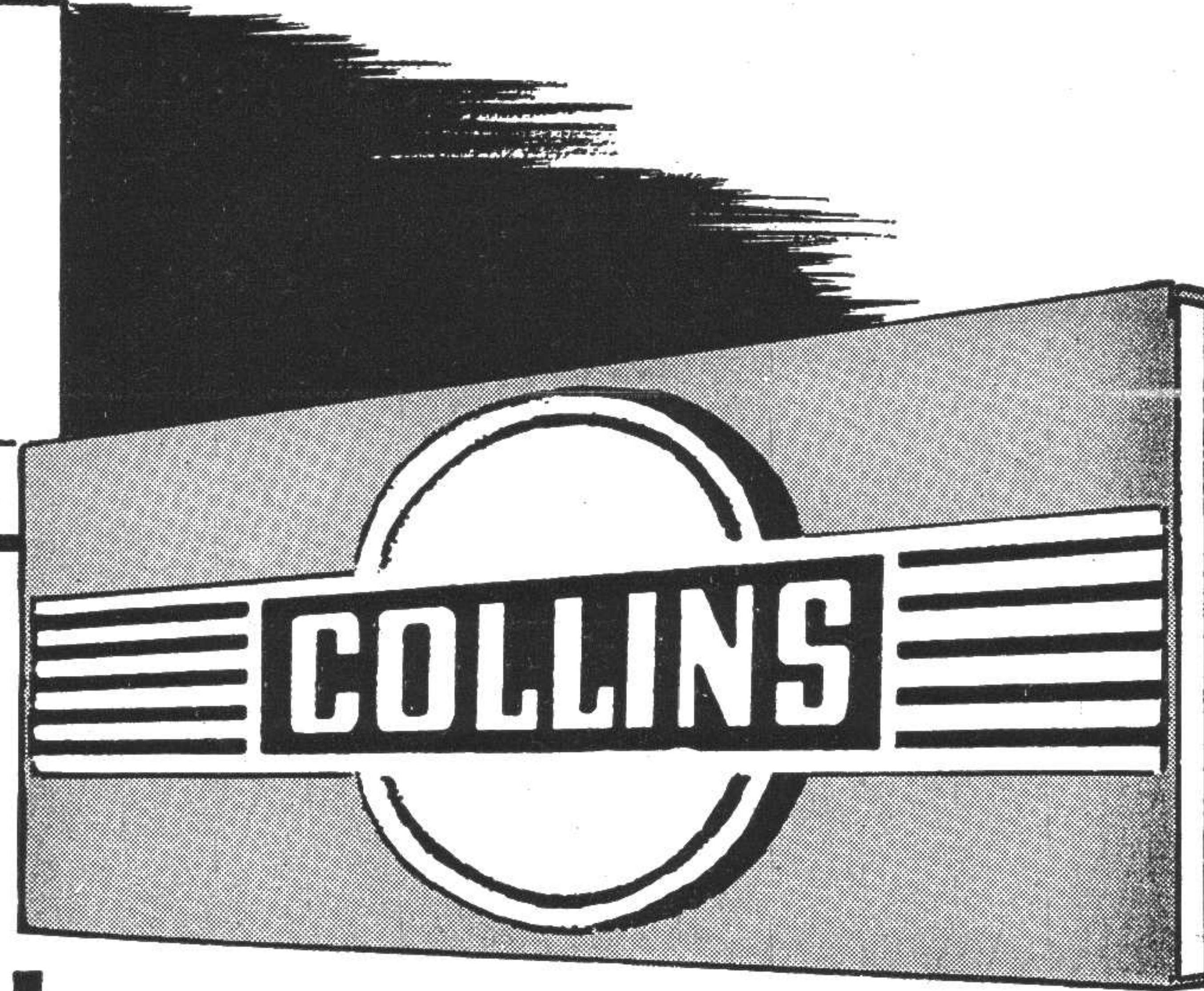
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| Hallicrafter SX73 \$975.00; SX62        | 289.50   |
| Hallicrafter HT20 xmitter               | 449.00   |
| National SW54                           | 49.95    |
| National NC125                          | 149.50   |
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| National HRO Sixty                      | 483.50   |
| Hammarlund SP600JX \$985.00; HQ129X     | 199.50   |
| Johnson VFO kit (wired \$17.00)         | 42.75    |
| Johnson mobile xmitter                  | 99.50    |
| Johnson Viking II and tubes             | 279.50   |
| Gonset xmitter \$124.50; Gonset Triband | 47.60    |
| Morrow 3BR \$64.95; 2BR \$54.95; 1BR    | 44.95    |
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| Harvey-Wells Deluxe \$137.50; Senior    | 111.50   |
| Lysco 600S \$189.95; Lysco 600          | 143.95   |

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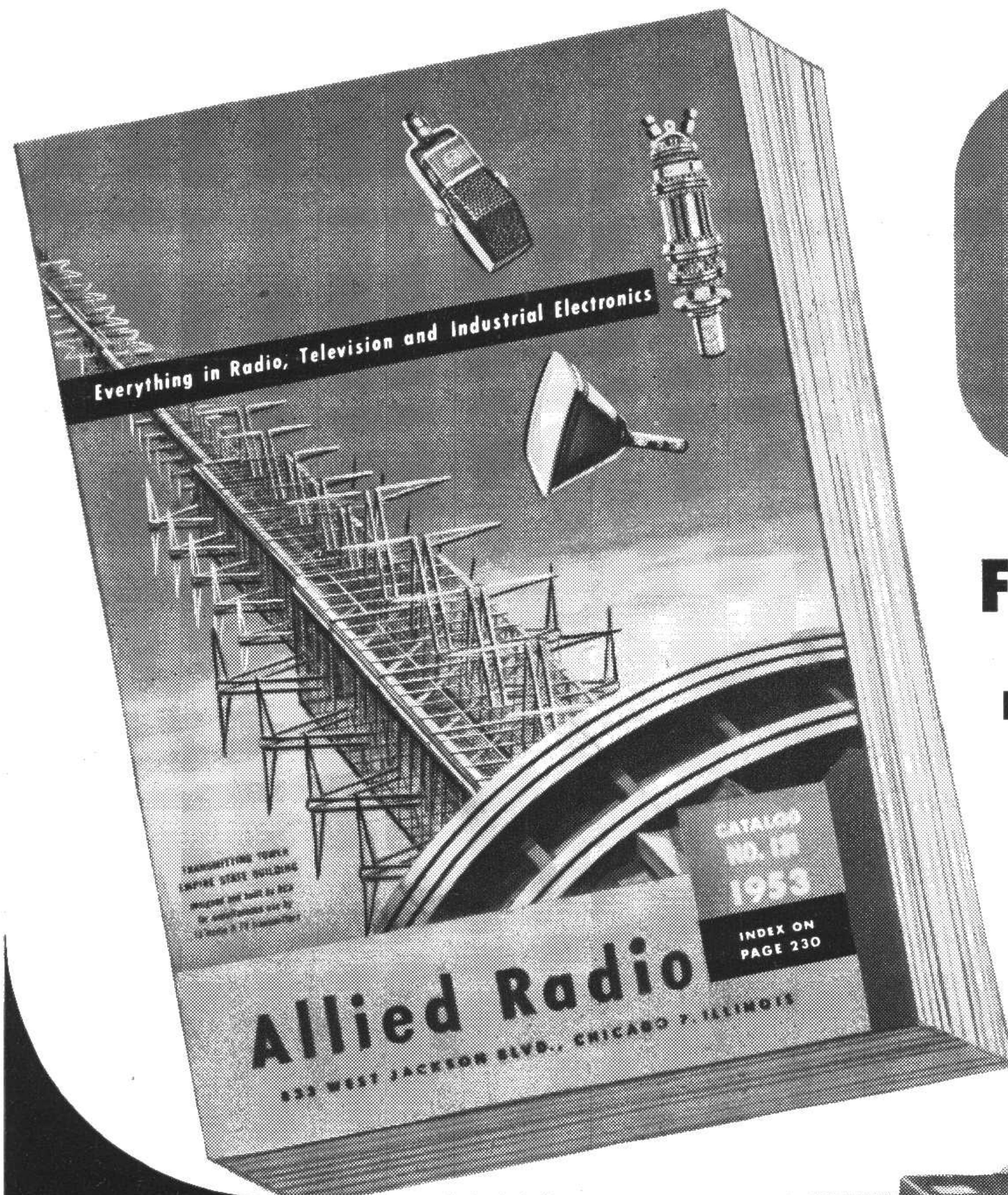
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# PREFIXES—BY COUNTRIES

The following countries listed in alphabetical order by country show international radio amateur prefixes. Characters in ( ) designate the continent and zone in which the country is located. Abbreviations are as follows: A—Asia, AF—Africa, E—Europe, NA—North America, O—Oceania, SA—South America.

|                        |             |        |                          |            |           |                                 |              |              |
|------------------------|-------------|--------|--------------------------|------------|-----------|---------------------------------|--------------|--------------|
| ADEN                   | (A-21)      | VS9    | GUADELOUPE               | (NA-8)     | FG8       | RHODESIA, NORTHERN              | (AF-36)      | VQ2          |
| AFGHANISTAN            | (A-21)      | YA     | GUAM                     | (O-27)     | KG6       | RHODESIA, SOUTHERN              | (AF-38)      | ZE           |
| ALASKA                 | (NA-1)      | KL7    | GUANTANAMO BAY           | (NA-8)     | KG4       | ROUMANIA                        | (E-20)       | YO           |
| ALBANIA                | (E-15)      | ZA     | GUATEMALA                | (NA-7)     | IG        | RYUKYU ISLANDS                  | (A25)        | KR6          |
| ALGERIA                | (AF-33)     | FA     | GUIANA, BRITISH          | (SA-9)     | VP3       | SAARLAND                        | (E-14)       | 9S4          |
| ANDORRA                | (E-14)      | PX     | GUIANA, FRENCH           | (SA-9)     | FY7       | SAINT HELENA                    | (AF-36)      | ZD7          |
| ANGLO-EGYPTIAN SUDAN   | (AF-34)     | ST     | GUIANA, NETHERLANDS      | (SA-9)     | PZ        | SAIPAN ISLAND                   | (O-27)       | KG6S         |
| ANGOLA                 | (AF-36)     | CR6    | GUINEA, PORTUGUESE       | (AF-35)    | CR5       | SALVADOR                        | (NA-7)       | YS           |
| ARGENTINA              | (SA-13)     | LU     | HAITI                    | (NA-8)     | HH        | SAMOA (U.S.)                    | (O-32)       | KS6          |
| ASCENSION ISLAND       | (AF-36)     | ZD8    | HAWAIIAN ISLANDS         | (O-31)     | KH6       | SAMOA (Western)                 | (O-32)       | ZM           |
| AUSTRALIA              | (O-29 & 30) | VK     | HONDURAS                 | (NA-7)     | HR        | SARAWAK                         | (O-28)       | VS           |
| AUSTRIA                | (E-15)      | OE     | HONG KONG                | (A-24)     | VS6       | SAUDI ARABIA                    | (A-21)       | HZ           |
| AZORES ISLANDS         | (E-14)      | CT2    | HOWLAND ISLAND           | (O-31)     | KB6       | SCOTLAND                        | (E-14)       | GM           |
| BAHAMA ISLANDS         | (NA-8)      | VP7    | HUNGARY                  | (E-15)     | HA        | SEYCHELLES                      | (AF-39)      | VQ9          |
| BAHREIN ISLANDS        | (AF-21)     | MP4    | ICELAND                  | (E-40)     | TF        | SIAM                            | (A-26)       | HS           |
| BAKER ISLAND           | (O-31)      | KB6    | INDIA                    | (A-21)     | VU        | SIERRA LEONE                    | (AF-35)      | ZD1          |
| BALEARIC ISLANDS       | (E-14)      | EA6    | IRAN                     | (A-21)     | EQ        | SIKKIM                          | (A-22)       | AC3          |
| BARBADOS               | (NA-8)      | VP6    | IRAQ                     | (A-21)     | YI        | SOCOTRA ISLAND                  | (AF-37)      | VS9          |
| BASUTOLAND             | (AF-38)     | ZS4    | IRELAND                  | (E-14)     | EI        | SOLOMON ISLANDS                 | (O-28)       | VR4          |
| BELGIAN CONGO          | (AF-36)     | OQ     | ISLE OF MAN              | (E-14)     | GD        | SOMALILAND, British             | (AF-37)      | VQ6          |
| BELGIUM                | (E-14)      | ON     | ISRAEL                   | (A-20)     | 4X4       | SOMALILAND, French              | (AF-37)      | FL8          |
| BERMUDA ISLANDS        | (NA-5)      | VP9    | ITALY                    | (E-15)     | I         | SOMALILAND, Italian             | (AF-37)      | I5           |
| BOLIVIA                | (SA-10)     | CP     | IWO JIMA ISLAND          | (O-25)     | KG6I      | SOUTH GEORGIA                   | (SA-13)      | VP8          |
| BORNEO (Br. North)     | (O-28)      | VS4    | JAMAICA                  | (NA-8)     | VP5       | SOUTH ORKNEY ISLANDS            | (SA-13)      | VP8          |
| BORNEO (Neth. Indies)  | (O-28)      | PK5    | JAN MAYEN ISLAND         | (E-40)     | OY        | SOUTH SANDWICH ISLANDS          | (SA-13)      | VP8          |
| BRAZIL                 | (SA-11)     | PY     | JAPAN                    | (A-25)     | KA        | SOUTH SHETLAND ISLANDS          | (SA-13)      | VP8          |
| BRITISH HONDURAS       | (NA-7)      | VP1    | JARVIS ISLAND            | (O-31)     | KP6       | SOUTHWEST AFRICA                | (AF-38)      | ZS3          |
| BRUNEI                 | (O-28)      | VSS    | JAVA                     | (O-28)     | PK1, 2, 3 | SOVIET UNION:                   |              |              |
| BULGARIA               | (E-20)      | LZ     | JOHNSTON ISLAND          | (O-31)     | KJ6       | EUROPEAN RUSSIAN SOCIALIST      |              |              |
| BURMA                  | (A-26)      | XZ     | KENYA                    | (AF-37)    | VQ4       | FEDERATED SOVIET REP.           | (E-16)       | UA1, 3, 4, 6 |
| CAMEROONS, British     | (AF-36)     | ZD2    | KOREA                    | (A-25)     | HL1       | ASIATIC RUSSIAN S.F.S.R.        | (A-18, 19)   | UA9, φ       |
| CAMEROONS, French      | (AF-36)     | FE8    | LABRADOR                 | (NA-2)     | VO        | UKRAINE                         | (E-16)       | UB5          |
| CANADA                 | (NA-1 to 5) | VE     | LACCADIVE ISLANDS        | (A-22)     | VU4       | WHITE RUSSIAN S.S.R.            | (E-16)       | UC           |
| CANAL ZONE             | (NA-7)      | KZ5    | LEBANON REPUBLIC         | (A-20)     | OD5       | AZERBAIJAN                      | (A-21)       | UD6          |
| CANARY ISLANDS         | (AF-33)     | EA8    | LEEWARD ISLANDS          | (NA-8)     | VP2       | GEORGIA                         | (A-21)       | UF6          |
| CANTON ISLAND          | (O-31)      | KB6    | LIBERIA                  | (AF-35)    | EL        | ARMENIA                         | (A-21)       | UG6          |
| CAPE VERDE ISLANDS     | (AF-35)     | CR4    | LIBYA                    | (AF-34)    | 5A2       | TURKOMAN                        | (A-17)       | UH8          |
| CAROLINE ISLANDS       | (O-27)      | KC6    | LIECHTENSTEIN            | (E-14)     | HE1       | UZBEK                           | (A-17)       | U18          |
| CAYMAN ISLANDS         | (NA-8)      | VP5    | LITTLE AMERICA           | (SA-13)    | KC4       | TADZHIK                         | (A-17)       | U18          |
| CELEBES                | (O-28)      | PK6    | LUXEMBOURG               | (E-14)     | LX        | KAZAKH                          | (A-17)       | UL7          |
| CEYLON                 | (A-22)      | VS7    | MACAU                    | (A-24)     | CR9       | KIRGHIZ                         | (A-17)       | UM8          |
| CHAGOS ISLANDS         | (AF-39)     | VQ8    | MADAGASCAR               | (AF-39)    | FB8       | KARELO-FINNISH REP.             | (E-16)       | UN1          |
| CHANNEL ISLANDS        | (E-14)      | GC     | MADEIRA ISLANDS          | (AF-33)    | CT3       | MOLDAVIA                        | (E-16)       | UO5          |
| CHILE                  | (SA-12)     | CE     | MALAYA                   | (A-28)     | VS1, 2    | LITHUANIA                       | (E-15)       | UP           |
| CHINA                  | (A-23 & 24) | C      | MALDIVES ISLANDS         | (A-22)     | VS9       | LATVIA                          | (E-15)       | UQ           |
| CHRISTMAS ISLAND       | (O-31)      | ZC3    | MALTA                    | (E-15)     | ZB1       | ESTONIA                         | (E-15)       | UR           |
| COCOS ISLAND           | (NA-7)      | TI     | MARIANAS ISLANDS         | (O-27)     | KG6       | SPAIN                           | (E-14)       | EA           |
| COCOS ISLANDS          | (O-29)      | ZC2    | MARSHALL ISLANDS         | (O-31)     | KX6       | SUMATRA                         | (O-28)       | PK4          |
| COLOMBIA               | (SA-9)      | HK     | MARTINIQUE               | (NA-8)     | FM8       | SWAN ISLAND                     | (NA-7)       | KS4          |
| COOK ISLANDS           | (O-32)      | ZKI    | MAURITIUS                | (AF-39)    | VQ8       | SWEDEN                          | (E-14)       | SM           |
| CORSICA                | (E-15)      | FC     | MEXICO                   | (NA-6)     | XE        | SWITZERLAND                     | (E-14)       | HB           |
| COSTA RICA             | (NA-7)      | TI     | MIDWAY ISLAND            | (O-31)     | KM6       | SYRIA                           | (A-20)       | YK           |
| CRETE                  | (E-20)      | SV     | MIQUELON ISLAND          | (NA-5)     | FP8       | TANGANYIKA                      | (AF-37)      | VQ3          |
| CUBA                   | (NA-8)      | CM, CO | MONACO                   | (E-14)     | 3A2       | TANGIER ZONE                    | (AF-33)      | CN2          |
| CYPRUS                 | (A-20)      | ZC4    | MOROCCO, French          | (AF-33)    | CN        | TANNU TUVA                      | (A-23)       | TT           |
| CZECHOSLOVAKIA         | (E-15)      | OK     | MOROCCO, Spanish         | (AF-33)    | EA9       | TIBET                           | (A-23)       | AC4          |
| DENMARK                | (E-14)      | OZ     | MOZAMBIQUE               | (AF-37)    | CR7       | TIMOR, Portuguese               | (O-28)       | CR10         |
| DODECANESE ISLANDS     | (E-20)      | SV5    | NETHERLANDS              | (E-14)     | PA        | TINIAN ISLAND                   | (O-27)       | KG6T         |
| DOMINICAN REPUBLIC     | (NA-8)      | HI     | NETHERLAND W. INDIES     | (SA-9)     | PJ        | TOGOLAND, French                | (AF-35)      | FD8          |
| ECUADOR                | (SA-10)     | HC     | NEW CALEDONIA            | (O-32)     | FK8       | TONGA (Friendly) ISLANDS        | (O-32)       | VR5          |
| EGYPT                  | (AF-34)     | SU     | NEWFOUNDLAND             | (NA-5)     | VO        | TRANSJORDAN                     | (A-20)       | ZC1          |
| ELICE ISLANDS          | (O-31)      | VR1    | NEW GUINEA, Netherlands  | (O-28)     | PK6       | TRIESTE                         | (E-15)       | AG2 & MF2    |
| ENGLAND                | (E-14)      | G      | NEW GUINEA, Territory of | (O-28)     | VK6       | TRINIDAD & TOBAGO               | (SA-9)       | VP4          |
| ERITREA                | (AF-37)     | M13    | NEW HEBRIDES             | (O-32)     | FU8, YJ   | TRISTAN da CUNHA & COUGH ISLAND | (AF-38)      | ZD9          |
| ETHIOPIA               | (AF-37)     | ET     | NEW ZEALAND              | (O-32)     | ZL        | TUNISIA                         | (AF-33)      | 3V8          |
| FAEROES, The           | (E-14)      | OY     | NICARAGUA                | (NA-7)     | YN        | TURKEY                          | (A-20)       | TA           |
| FALKLAND ISLANDS       | (SA-13)     | VP8    | NIGERIA                  | (AF-35)    | ZD2       | TURKS & CAICOS ISLANDS          | (NA-8)       | VPS          |
| FANNING ISLAND         | (O-31)      | VR3    | NORTHERN IRELAND         | (E-14)     | ZK2       | UGANDA                          | (AF-37)      | VQ5          |
| FIJI ISLANDS           | (O-32)      | VR2    | NORWAY                   | (E-14)     | GI        | UNION OF SOUTH AFRICA           | (AF-38)      | ZS           |
| FINLAND                | (E-15)      | OH     | NYASALAND                | (AF-37)    | ZD6       | UNITED STATES of AMERICA        | (NA-3, 4, 5) | W, K         |
| FRANCE                 | (E-14)      | F      | OKINAWA                  | (A-25)     | KR6       | URUGUAY                         | (SA-13)      | CX           |
| FRENCH-AUSTRIA         | (E-15)      | FKS    | OMAN                     | (A-21)     | MP4       | VATICAN CITY                    | (E-15)       | HV           |
| FR. EQUATORIAL AFRICA  | (AF-36)     | FQ8    | PAKISTAN                 | (A-21, 22) | AP        | VENEZUELA                       | (SA-9)       | YV           |
| FRENCH INDIA           | (A-22)      | FN     | PANAMA                   | (NA-7)     | HP        | VIRGIN ISLANDS                  | (NA-8)       | KV4          |
| FRENCH INDO-CHINA      | (A-26)      | F18    | PAPUA TERRITORY          | (O-28)     | VK9       | WAKE ISLAND                     | (O-31)       | KW6          |
| FRENCH OCEANIA         | (O-32)      | FO8    | PARAGUAY                 | (SA-11)    | ZP        | WALES                           | (E-14)       | GW           |
| FRENCH WEST AFRICA     | (AF-35)     | FF8    | PERU                     | (SA-10)    | OA        | WINDWARD ISLANDS                | (NA-8)       | VP2          |
| GAMBIA                 | (AF-35)     | ZD3    | PHILIPPINE ISLANDS       | (O-27)     | DU        | YUGOSLAVIA                      | (E-15)       | YT, YU       |
| GERMANY                | (E-14)      | DL     | PITCAIRN ISLAND          | (O-32)     | VR6       | ZANZIBAR                        | (AF-37)      | VQ1          |
| GIBRALTAR              | (E-14)      | ZB2    | POLAND                   | (E-15)     | SP        |                                 |              |              |
| GILBERT ISLANDS        | (O-31)      | VR1    | PORTUGAL                 | (E-14)     | CT1       |                                 |              |              |
| GOA (Portuguese India) | (A-22)      | CR8    | PUERTO RICO              | (NA-8)     | KP4       |                                 |              |              |
| GOLD COAST             | (AF-35)     | ZD4    | REUNION ISLAND           | (AF-39)    | FR8       |                                 |              |              |
| GREECE                 | (E-20)      | SV     |                          |            |           |                                 |              |              |
| GREENLAND              | (NA-40)     | OX     |                          |            |           |                                 |              |              |

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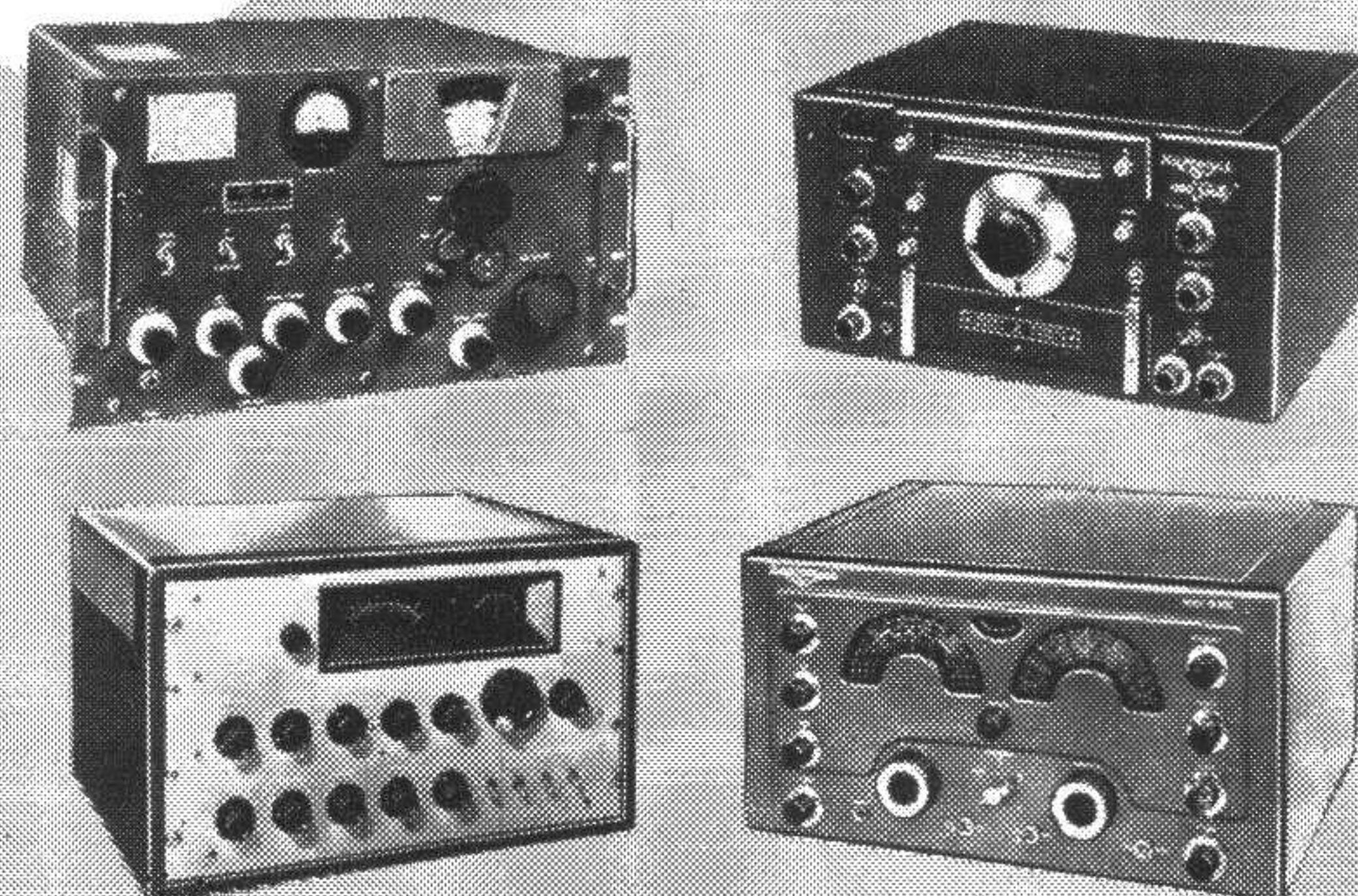
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| COUNTRY              | QSL cards | First class | Air mail | COUNTRY              | QSL cards | First class | Air mail | COUNTRY               | QSL cards | First class | Air mail |
|----------------------|-----------|-------------|----------|----------------------|-----------|-------------|----------|-----------------------|-----------|-------------|----------|
| ADEN                 | \$.03     | \$.05       | \$.25    | FRENCH OCEANIA       | .03       | .05         | .25      | NORWAY                | .03       | .05         | .15      |
| AFGHANISTAN          | .03       | .05         | .25      | FRENCH SOMALILAND    | .03       | .05         | .25      | NYASALAND             | .03       | .05         | .25      |
| ALASKA               | .02       | .03         | .06*     | FRENCH SUDAN         | .03       | .05         | .25      | OKINAWA               | .03       | .05         | .25      |
| ALBANIA              | .03       | .05         | .15      | FRENCH TOGO          | .03       | .05         | .25      | PAKISTAN              | .03       | .05         | .25      |
| ALGERIA              | .03       | .05         | .15      | GAMBIA               | .03       | .05         | .25      | PANAMA                | .02       | .03         | .10      |
| ANDORRA              | .02       | .30         | .15      | GERMANY              | .03       | .05         | .15      | PAPUA                 | .03       | .05         | .25      |
| ANGLO-EGYPTIAN SUDAN | .03       | .05         | .25      | GIBRALTAR            | .03       | .05         | .15      | PARAGUAY              | .02       | .03         | .10      |
| ANGOLA               | .03       | .05         | .25      | GILBERT & ELICE IS.  | .03       | .05         | .25      | PERU                  | .02       | .03         | .10      |
| ANGUILLA             | .03       | .05         | .10      | GOLD COAST COLONY    | .03       | .05         | .25      | PHILIPPINE IS.        | .02       | .03         | .25      |
| ANTIGUA              | .03       | .05         | .10      | GREECE               | .03       | .05         | .15      | POLAND                | .03       | .05         | .15      |
| ARGENTINA            | .02       | .03         | .10      | GRENADA, BWI         | .03       | .05         | .10      | PORTUGAL              | .03       | .05         | .15      |
| ARUBA                | .03       | .05         | .10      | GRENADINES, BWI      | .03       | .05         | .10      | PORT. EAST AFRICA     | .03       | .05         | .25      |
| AUSTRALIA            | .03       | .05         | .25      | GUADELOUPE           | .03       | .05         | .10      | PORTUGUESE GUINEA     | .03       | .05         | .25      |
| AUSTRIA              | .03       | .05         | .15      | GUAM                 | .02       | .03         | .06*     | PORTUGUESE INDIA      | .03       | .05         | .25      |
| AZORES               | .03       | .05         | .15      | GUATEMALA            | .02       | .03         | .10      | PORTUGUESE TIMOR      | .03       | .05         | .25      |
| BAHAMAS              | .03       | .05         | .10      | HAITI                | .02       | .03         | .10      | PORTUGUESE W. AFRICA  | .03       | .05         | .25      |
| BAHREIN ISLANDS      | .03       | .05         | .25      | HAWAII               | .02       | .03         | .06*     | PUERTO RICO           | .02       | .03         | .06*     |
| BALEARIC ISLANDS     | .02       | .03         | .15      | HONDURAS             | .02       | .03         | .10      | REDONDA, BWI          | .03       | .05         | .10      |
| BALUCHISTAN          | .03       | .05         | .25      | HONG KONG            | .03       | .05         | .25      | REUNION ISLAND        | .03       | .05         | .25      |
| BARBADOS             | .03       | .05         | .10      | HUNGARY              | .03       | .05         | .15      | RIO DE ORO            | .02       | .03         | .25      |
| BARBUDA              | .03       | .05         | .10      | ICELAND              | .03       | .05         | .15      | ROMANIA               | .03       | .05         | .15      |
| BECHUANALAND         | .03       | .05         | .25      | INDIA                | .03       | .05         | .25      | RYUKYU ISLANDS        | .03       | .05         | .25      |
| BELGIAN CONGO        | .03       | .05         | .25      | INDONESIA            | .03       | .05         | .25      | ST CHRISTOPHER, BWI   | .03       | .05         | .10      |
| BELGIUM              | .03       | .05         | .15      | IRAN                 | .03       | .05         | .25      | ST HELENA             | .03       | .05         | .25      |
| BERMUDA              | .03       | .05         | .10      | IRAQ                 | .03       | .05         | .25      | ST KITS, BWI          | .03       | .05         | .10      |
| BOLIVIA              | .02       | .03         | .10      | ITALY                | .03       | .05         | .15      | ST LUCIA, BWI         | .03       | .05         | .10      |
| BRAZIL               | .02       | .03         | .10      | ITALIAN SOMALILAND   | .03       | .05         | .25      | ST PIERRE & MIQUELON  | .03       | .05         | .08*     |
| BRITISH CAMEROONS    | .03       | .05         | .25      | IVORY COAST          | .03       | .05         | .25      | ST VINCENT, BWI       | .03       | .05         | .10      |
| BRITISH GUIANA       | .03       | .05         | .10      | JAMAICA              | .03       | .05         | .10      | SALVADOR              | .02       | .03         | .10      |
| BRITISH HONDURAS     | .03       | .05         | .10      | JAPAN                | .03       | .05         | .25      | SAMOA (Br.)           | .03       | .05         | .25      |
| BRITISH SOMALILAND   | .03       | .05         | .25      | JORDAN               | .03       | .05         | .25      | SAN MARINO            | .03       | .05         | .15      |
| BR. VIRGIN ISLANDS   | .03       | .05         | .10      | KENYA & UGANDA       | .03       | .05         | .25      | SARAWAK               | .03       | .05         | .25      |
| BRUNEI               | .03       | .05         | .25      | KOREA                | .03       | .05         | .25      | SAUDI ARABIA          | .03       | .05         | .25      |
| BULGARIA             | .03       | .05         | .15      | LABUAN               | .03       | .05         | .25      | SCOTLAND              | .03       | .05         | .15      |
| BURMA                | .03       | .05         | .25      | LATVIA               | .03       | .05         | .15      | SENEGAL               | .03       | .05         | .25      |
| CANADA               | .02       | .03         | .06*     | LEBANON              | .03       | .05         | .25      | SIAM                  | .03       | .05         | .25      |
| CANAL ZONE           | .02       | .03         | .06*     | LIBERIA              | .03       | .05         | .25      | SIERRA LEONE          | .03       | .05         | .25      |
| CANARY ISLANDS       | .02       | .03         | .25      | LIBYA                | .03       | .05         | .15      | SOLOMON ISLANDS       | .03       | .05         | .25      |
| CANTON ISLAND        | .02       | .03         | .06*     | LIECHENSTEIN         | .03       | .05         | .15      | SOMALIA               | .03       | .05         | .25      |
| CAPE VERDE ISLANDS   | .03       | .05         | .25      | LITHUANIA            | .03       | .05         | .15      | SOUTHERN RHODESIA     | .03       | .05         | .25      |
| CEYLON               | .03       | .05         | .25      | LUXEMBOURG           | .03       | .05         | .15      | SOUTHWEST AFRICA      | .03       | .05         | .25      |
| CHILE                | .02       | .03         | .10      | MACAO                | .03       | .05         | .25      | SPAIN                 | .02       | .03         | .15      |
| CHINA                | .03       | .05         | .25      | MADAGASCAR           | .03       | .05         | .25      | SPANISH GUINEA        | .03       | .05         | .25      |
| COLOMBIA             | .02       | .03         | .10      | MADEIRA ISLANDS      | .03       | .05         | .15      | STRAIT SETTLEMENTS    | .03       | .05         | .25      |
| COOK ISLANDS         | .03       | .05         | .25      | MALAY STATES         | .03       | .05         | .25      | SURINAM               | .03       | .05         | .10      |
| CORSICA              | .03       | .05         | .15      | MALTA                | .03       | .05         | .15      | SWEDEN                | .03       | .05         | .15      |
| COSTA RICA           | .02       | .03         | .10      | MANCHURIA            | .03       | .05         | .25      | SWITZERLAND           | .03       | .05         | .15      |
| CUBA                 | .02       | .03         | .08      | MARITINA             | .03       | .05         | .25      | SYRIA                 | .03       | .05         | .25      |
| CURACAO              | .03       | .05         | .10      | MAURITIUS            | .03       | .05         | .25      | TAIWAN (Formosa)      | .03       | .05         | .25      |
| CYPRUS               | .03       | .05         | .25      | MEXICO               | .02       | .03         | .06*     | TANGANYIKA            | .03       | .05         | .25      |
| CYRENAICA            | .03       | .05         | .15      | MIDWAY ISLAND        | .02       | .03         | .06*     | TIBET                 | .03       | .05         | .25      |
| CZECHOSLOVAKIA       | .03       | .05         | .15      | MONACO               | .03       | .05         | .15      | TONGA ISLANDS         | .03       | .05         | .25      |
| DAHOMEY              | .03       | .05         | .25      | MONTSERRAT, BWI      | .03       | .05         | .10      | TRIESTE               | .03       | .05         | .15      |
| DENMARK              | .03       | .05         | .15      | MOROCCO, (Br. & Fr.) | .03       | .05         | .15      | TRINIDAD              | .03       | .05         | .10      |
| DODECANESE IS.       | .03       | .05         | .15      | MOROCCO, (Spain)     | .02       | .03         | .15      | TRIPOLITANIA          | .03       | .05         | .15      |
| DOMINICA             | .03       | .05         | .10      | MOZAMBIQUE           | .03       | .05         | .25      | TRISTAN DA CUNHA      | .03       | .05         | .25      |
| DOMINICAN REPUBLIC   | .02       | .03         | .10      | NAURU ISLAND         | .03       | .05         | .25      | TUNISIA               | .03       | .05         | .15      |
| ECUADOR              | .02       | .03         | .10      | NETHERLANDS          | .03       | .05         | .15      | TURKEY                | .03       | .05         | .15      |
| EGYPT                | .03       | .05         | .15      | NETHERLANDS INDIES   | .03       | .05         | .25      | TURKS ISLAND          | .03       | .05         | .10      |
| EIRE (Ireland)       | .03       | .05         | .15      | NEVIS                | .03       | .05         | .10      | UGANDA                | .03       | .05         | .25      |
| ENGLAND              | .03       | .05         | .15      | NEW CALEDONIA        | .03       | .05         | .25      | UNION OF SOUTH AFRICA | .03       | .05         | .25      |
| ERITREA              | .03       | .05         | .25      | NEWFOUNDLAND         | .02       | .03         | .06*     | URUGUAY               | .02       | .03         | .10      |
| ESTONIA              | .03       | .05         | .15      | NEW GUINEA           | .03       | .05         | .25      | U.S.S.R.              | .03       | .05         | .15      |
| ETHIOPIA             | .03       | .05         | .25      | NEW HEBRIDES         | .03       | .05         | .25      | U. S. VIRGIN IS.      | .02       | .03         | .06*     |
| FALKLAND ISLANDS     | .03       | .05         | .10      | NEW ZEALAND          | .03       | .05         | .25      | VATICAN CITY          | .03       | .05         | .15      |
| FAEROES ISLANDS      | .03       | .05         | .15      | NICARAGUA            | .02       | .03         | .10      | VEZUELA               | .02       | .03         | .10      |
| FIJI ISLANDS         | .03       | .05         | .25      | NIGER                | .03       | .05         | .25      | WAKE ISLAND           | .02       | .03         | .06*     |
| FINLAND              | .03       | .05         | .15      | NIGERIA              | .03       | .05         | .25      | YEMEN                 | .03       | .05         | .25      |
| FRANCE               | .03       | .05         | .15      | NORTH BORNEO         | .03       | .05         | .25      | YUGOSLAVIA            | .03       | .05         | .15      |
| FRENCH CAMEROONS     | .03       | .05         | .25      | NORTHERN IRELAND     | .03       | .05         | .15      | ZANZIBAR              | .03       | .05         | .25      |
| FRENCH EQ. AFRICA    | .03       | .05         | .25      | NORTHERN RHODESIA    | .03       | .05         | .25      |                       |           |             |          |
| FRENCH GUIANA        | .03       | .05         | .10      |                      |           |             |          |                       |           |             |          |
| FRENCH GUINEA        | .03       | .05         | .25      |                      |           |             |          |                       |           |             |          |
| FRENCH INDO-CHINA    | .03       | .05         | .25      |                      |           |             |          |                       |           |             |          |
| FRENCH INDIA         | .03       | .05         | .25      |                      |           |             |          |                       |           |             |          |

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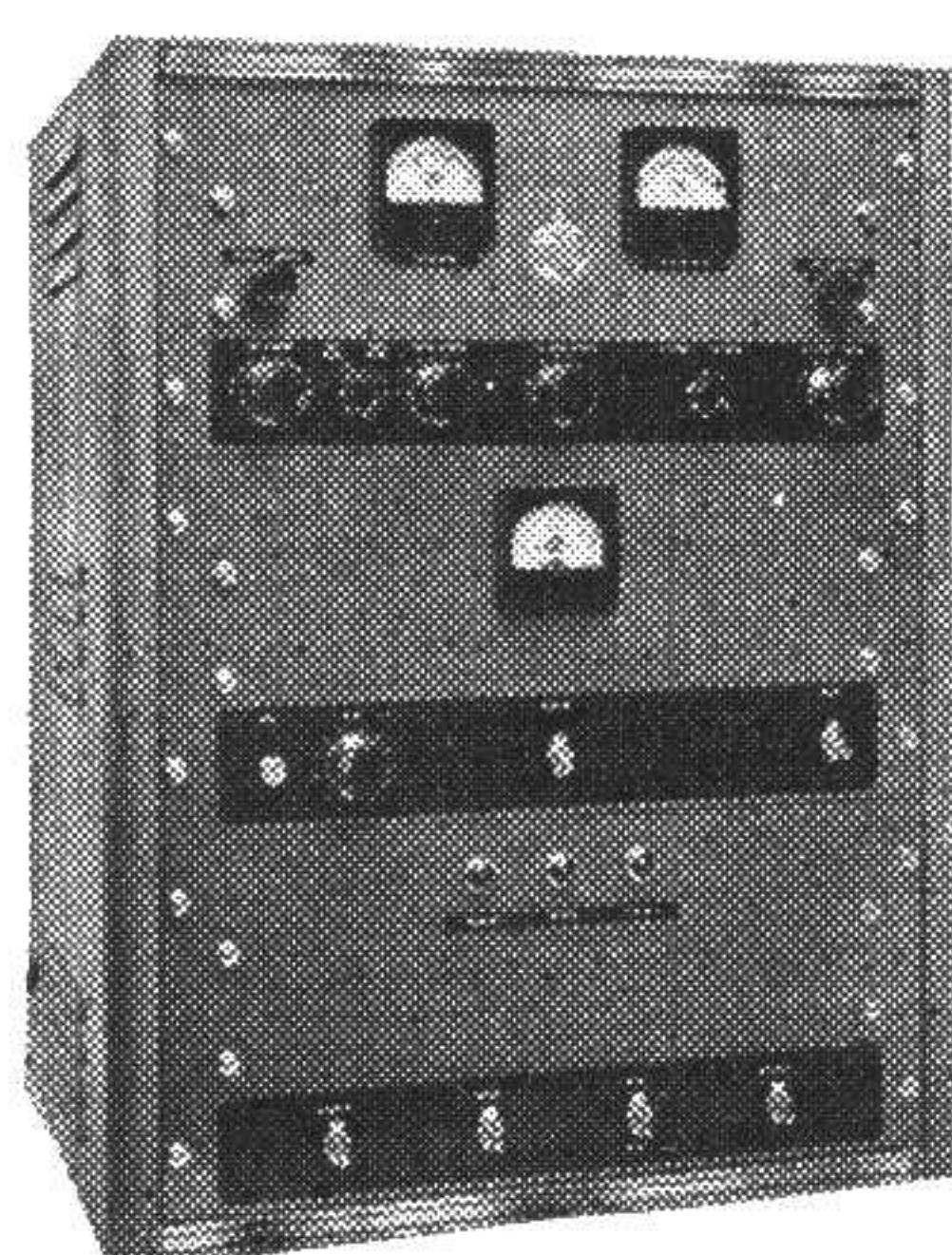
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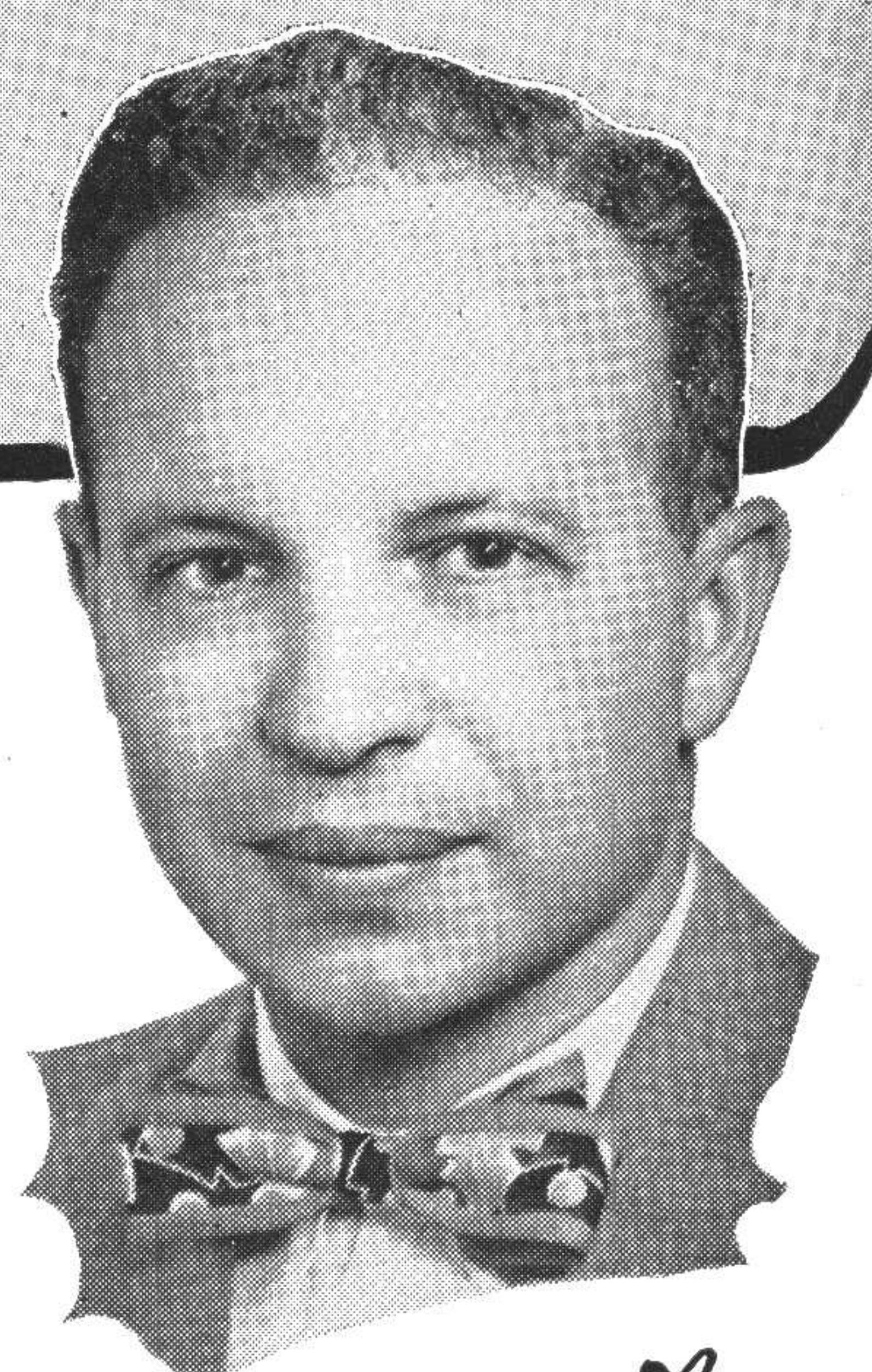
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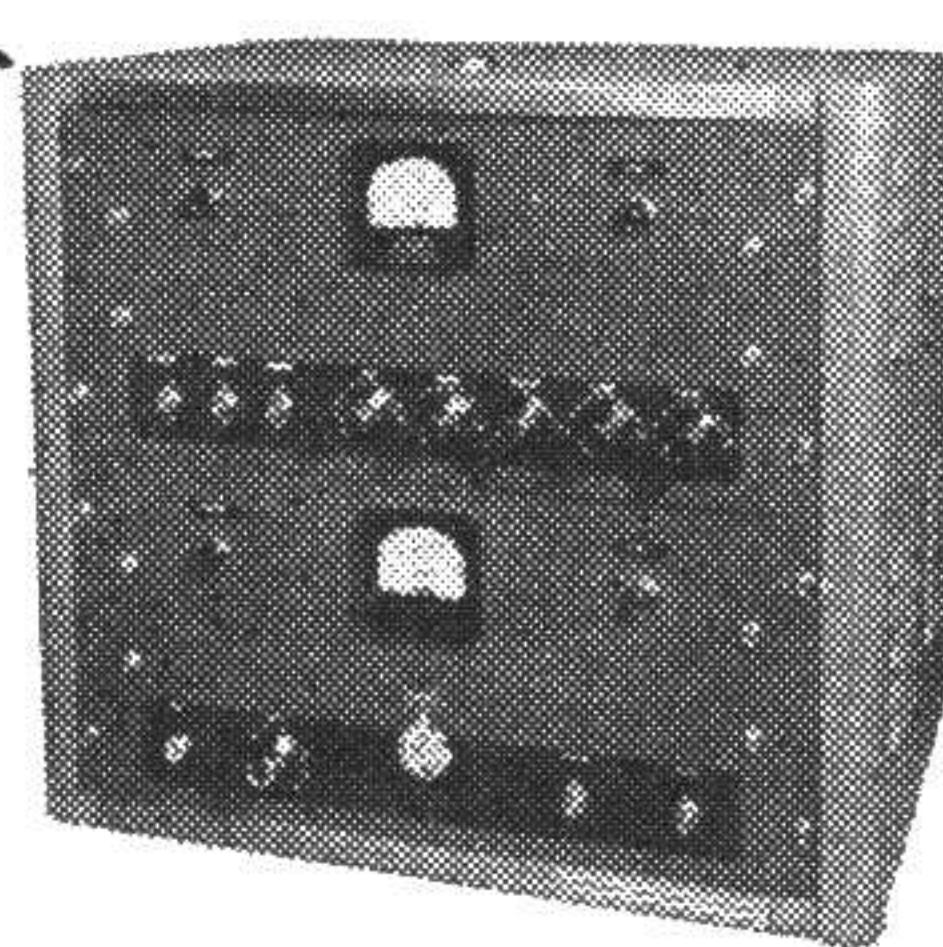
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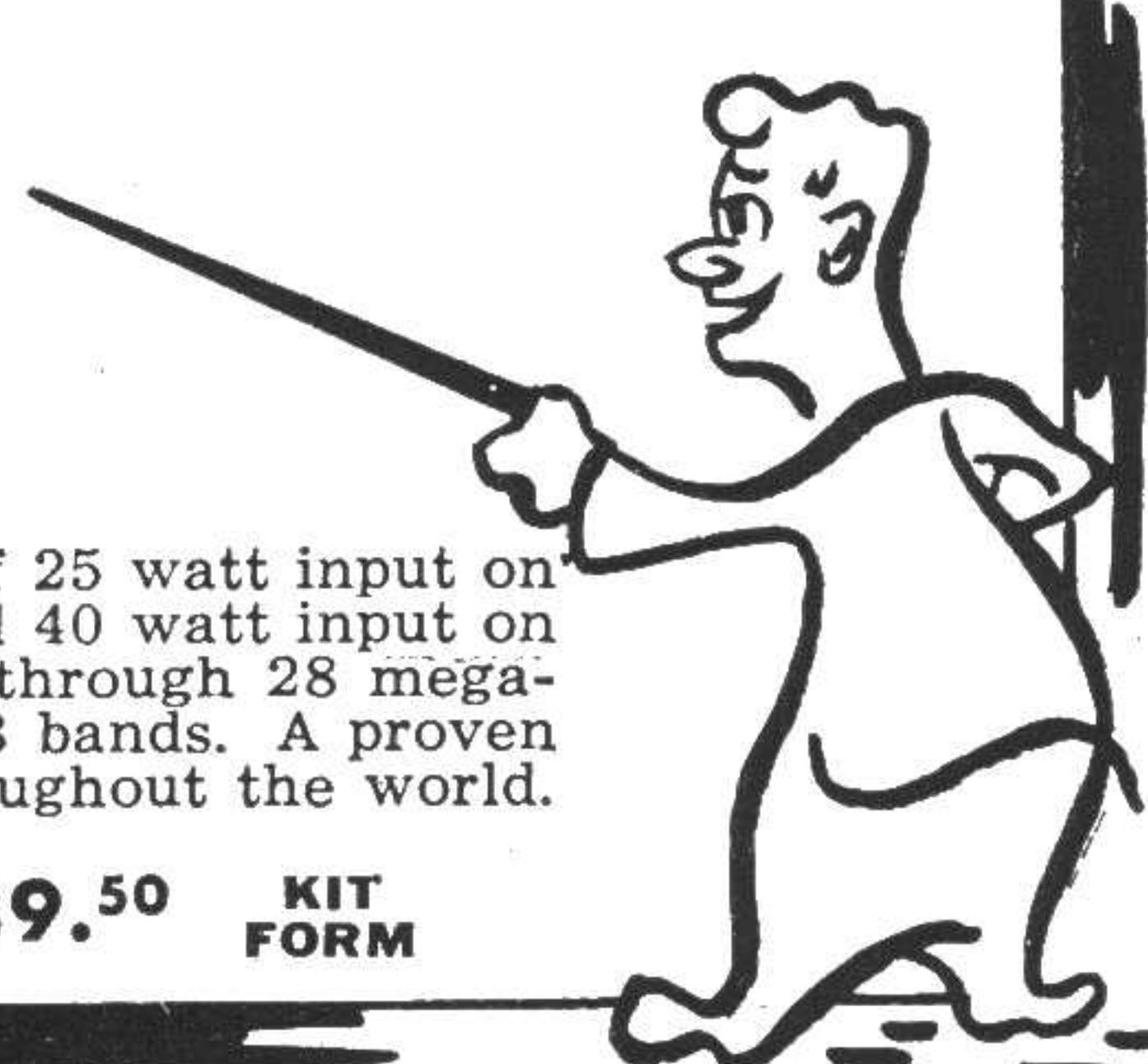
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# Great Circle Chart of the World Centered on THE UNITED STATES



To find the great circle bearing to any point in the world from the center of the United States, draw a straight line from the star and note the reading in degrees on the outer scale. The bar scale at the bottom of the chart can be used to determine the distance in statute miles. For bearings to the nearest degree reference is invited to the table on the opposite Page. The outlines of this chart were prepared by the U.S. Coast and Geodetic Survey.

# GREAT CIRCLE BEARINGS


FROM THE CENTER OF THE

# UNITED STATES

The table below shows the great circle bearing in degrees from the exact center of the United States to countries throughout the world having licensed radio amateurs. Where cities are shown the bearing to the nearest degree is given. These bearings were compiled from information supplied by the U. S. Coast and Geodetic Survey.

| Prefix | Country                      | Bearing | Prefix | Country                        | Bearing | Prefix | Country                         | Bearing |
|--------|------------------------------|---------|--------|--------------------------------|---------|--------|---------------------------------|---------|
| AC3    | SIKKIM                       | 352     | KL7    | ALASKA, Anchorage              | 322     | VK3    | Melbourne                       | 250     |
| AC4    | TIBET, Lhasa                 | 350     |        | Fairbanks                      | 329     | VK4    | Brisbane                        | 257     |
| AG2    | TRIESTE                      | 41      | KM6    | MIDWAY ISLAND                  | 288     | VK5    | Darwin                          | 287     |
| AP     | PAKISTAN, Karachi            | 13      | KP4    | PUERTO RICO                    | 117     | VK6    | Perth                           | 274     |
| AR8    | LEBANON, Beyrouth            | 36      | KP6    | PALMYRA ISLAND                 | 256     | VK7    | TASMANIA, Hobart                | 243     |
| C      | CHINA, Chungking             | 335     | KR6    | OKINAWA ISLAND                 | 318     | VK9    | NORFOLK ISLAND                  | 248     |
|        | Pekin                        | 333     | KS4    | SWAN ISLAND                    | 144     |        | PAPUA TERRITORY, Port Moresby   | 277     |
|        | Shanghai                     | 325     | KS6    | SAMOA                          | 248     | VO     | NEWFOUNDLAND, St. John's        | 59      |
| CE     | CHILE, Santiago              | 156     | KV4    | VIRGIN ISLANDS                 | 115     | VPI    | BRITISH HONDURAS                | 152     |
| CM     | CUBA, Havana                 | 135     | KW6    | WAKE ISLAND                    | 287     | VP2    | LEEWARD and WINDWARD ISLANDS    | 112     |
| CN8    | FRENCH MOROCCO, Casablanca   | 62      | KX6    | MARSHALL ISLANDS               | 276     | VP3    | BRITISH GUIANA, Georgetown      | 120     |
| CP     | BOLIVIA, La Paz              | 146     | KZ5    | CANAL ZONE                     | 145     | VP4    | TRINIDAD                        | 120     |
| CR4    | CAPE VERDE ISLANDS           | 87      | LA     | NORWAY, Oslo                   | 29      | VP5    | JAMAICA                         | 127     |
| CR5    | PORTUGUESE GUINEA            | 84      | LI     | LIBYA, Tripoli                 | 51      | VP6    | BARBADOS ISLANDS                | 112     |
| CR6    | ANGOLA, Nova Lisboa          | 83      | LU     | ARGENTINA, Buenos Aires        | 147     | VP7    | BAHAMAS ISLANDS                 | 121     |
| CR7    | MOZAMBIQUE, Lourenco Marques | 85      | LX     | LUXEMBOURG                     | 42      | VP8    | FALKLAND ISLANDS                | 156     |
|        | Mozambique                   | 65      | LZ     | BULGARIA, Sofia                | 38      |        | South Georgia Island            | 147     |
| CR8    | GOA                          | 7       | MB9    | AUSTRIA, Vienna                | 38      |        | South Orkney Islands            | 155     |
| CR9    | MACAU                        | 327     | MD1    | CIRENAICA                      | 46      | VP9    | BERMUDA                         | 94      |
| CR10   | TIMOR ISLAND                 | 295     | MD2    | TRIPOLITANIA                   | 51      | VQ1    | ZANZIBAR                        | 57      |
| CT1    | PORTUGAL, Lisbon             | 59      | MD3    | ERITREA, Asmara                | 44      | VQ2    | NORTHERN RHODESIA, Lusaka       | 77      |
| CT2    | AZORES ISLANDS               | 67      | MD4    | BRITISH SOMALILAND             | 40      | VQ3    | TANGANYIKA, Dar-Es-Salaam       | 59      |
| CT3    | MADERIA ISLANDS              | 68      | MD5    | SUEZ CANAL ZONE                | 40      | VQ4    | KENYA, Nairobi                  | 56      |
| CX     | URUGUAY, Montevideo          | 145     | MD6    | IRAQ, Baghdad                  | 30      | VQ5    | UGANDA                          | 59      |
| DL     | GERMANY, Berlin              | 37      | MD7    | CYPRUS                         | 37      | VQ6    | BRITISH SOMALILAND              | 40      |
| DU     | PHILIPPINE ISLANDS, Manila   | 316     | MF2    | TRIESTE (British)              | 41      | VQ8    | CHAGOS ISLANDS                  | 14      |
| EA     | SPAIN, Madrid                | 54      | M13    | ERITREA, Asmara                | 44      |        | Mauritius                       | 51      |
| EA6    | BALEARIC ISLANDS             | 52      | MP4    | BAHREIN ISLANDS and OMAN       | 28      | VQ9    | SEYCHELLES                      | 38      |
| EA8    | CANARY ISLANDS               | 71      | OA     | PERU, Lima                     | 153     | VR1    | GILBERT ISLANDS                 | 267     |
| EA9    | SPANISH MOROCCO              | 59      | OH     | FINLAND, Helsinki              | 25      | VR2    | FIJI ISLANDS                    | 251     |
| EI     | IRELAND, Dublin              | 43      | OE     | AUSTRIA, Vienna                | 38      | VR3    | FANNING ISLAND                  | 252     |
| EKI    | TANGIER ZONE                 | 60      | OK     | CZECHOSLOVAKIA, Prague         | 38      | VR4    | SOLOMON ISLANDS                 | 270     |
| EL     | LIBERIA, Monrovia            | 86      | ON     | BELGIUM, Brussels              | 41      | VR5    | TONGA ISLANDS                   | 244     |
| EP     | IRAN, Tehran                 | 23      | Q5     | BELGIAN CONGO, Elisabethville  | 74      | VR6    | PITCAIRN ISLAND                 | 208     |
| ET     | ETHIOPIA, Addis Ababa        | 48      |        | Leopoldville                   | 76      | VS     | MALAYA, Singapore               | 326     |
| F      | FRANCE, Paris                | 44      |        | Stanleyville                   | 65      | VS4    | BRITISH NORTH BORNEO            | 314     |
| FA     | ALGERIA, Algiers             | 54      | OX     | GREENLAND, Godthaab            | 34      | VS5    | BRUNEI and SARAWAK              | 316     |
| FB8    | MADAGASCAR, Antsirana        | 53      | OY     | FAEROES ISLANDS                | 34      | VS6    | HONG KONG                       | 326     |
|        | Tananaive                    | 63      | OZ     | DENMARK, Copenhagen            | 34      | VS7    | CEYLON                          | 1       |
| FC     | CORSICA                      | 46      | PA     | NETHERLANDS, Amsterdam         | 40      | VS9    | ADEN, Aden                      | 39      |
| FD8    | TOGO LAND                    | 77      | PK     | JAVA, Batavia                  | 317     | VU     | INDIA, Bombay                   | 8       |
| FE8    | FRENCH CAMEROONS             | 72      | PK4    | SUMATRA                        | 328     |        | Calcutta                        | 351     |
| FF8    | FRENCH WEST AFRICA, Dakar    | 84      | PK5    | BORNEO                         | 314     |        | Delhi                           | 3       |
| FG8    | GUADELOUPE                   | 114     | PK6    | CELEBES ISLAND                 | 305     | VU4    | LACCADIVE ISLANDS               | 9       |
| FI8    | FRENCH INDO CHINA, Saigon    | 328     | PK7    | NETHERLAND NEW GUINEA          | 290     | VU5    | ANDAMAN ISLANDS                 | 345     |
| FK8    | NEW CALEDONIA, Noumea        | 254     | PX     | ANDORRA                        | 50      | XE     | MEXICO, Mexico City             | 178     |
| FL8    | FRENCH SOMALILAND, Djibouti  | 42      | PY     | BRAZIL, Natal                  | 112     | XZ     | BURMA, Rangoon                  | 342     |
| FM8    | MARTINIQUE                   | 117     |        | Rio de Janeiro                 | 129     | YA     | AFGHANISTAN, Kandahar           | 13      |
| FO8    | FRENCH OCEANIA, Tahiti       | 229     | PZ     | SURINAM, (Netherland Guiana)   | 121     | YI     | IRAQ, Baghdad                   | 30      |
| FP8    | MIQUELON and ST. PIERRE IS.  | 64      | SM     | SWEDEN, Stockholm              | 29      | YJ     | NEW HEBRIDES                    | 260     |
| FQ8    | FRENCH EQUATORIAL AFRICA     | 65      | SP     | POLAND, Warsaw                 | 33      | YK     | SYRIA                           | 34      |
| FR8    | REUNION ISLAND               | 55      | ST     | ANGLO-EGYPTIAN SUDAN, Khartoum | 49      | YN     | NICARAGUA                       | 150     |
| FT4    | TUNISIA, Tunis               | 50      | SU     | EGYPT, Cairo                   | 41      | YO     | ROMANIA, Bucharest              | 36      |
| FU8    | NEW HEBRIDES                 | 259     | SV     | GREECE, Athens                 | 41      | YS     | SALVADOR, San Salvador          | 156     |
| FY8    | FRENCH GUIANA, Cayenne       | 117     | SV5    | DODECANESE ISLANDS             | 40      | YT     | YUGOSLAVIA, Belgrade            | 39      |
| G      | ENGLAND, London              | 43      | TA     | TURKEY, Ankara                 | 35      | YV     | VENEZUELA, Caracas              | 126     |
| GC     | CHANNEL ISLANDS              | 45      | TF     | ICELAND, Reykjavik             | 35      | ZA     | ALBANIA, Tirana                 | 41      |
| GD     | ISLE OF MAN                  | 41      | TG     | GUATEMALA, Guatemala City      | 161     | ZB1    | MALTA                           | 48      |
| GI     | NORTHERN IRELAND, Belfast    | 42      | TI     | COSTA RICA                     | 150     | ZB2    | GIBRALTAR                       | 58      |
| GM     | SCOTLAND, Glasgow            | 40      | TR     | LIBYA, Tripoli                 | 51      | ZC1    | TRANSJORDAN                     | 36      |
| GW     | WALES                        | 43      | TT     | TANNU TUVA, Kyzyl Khoto        | 351     | ZC2    | COCON ISLANDS                   | 327     |
| HA     | HUNGARY, Budapest            | 37      | U      | SOVIET UNION, Moscow           | 23      | ZC3    | CHRISTMAS ISLAND                | 315     |
| HB     | SWITZERLAND, Bern            | 43      | UB5    | UKRAINE                        | 30      | ZC4    | CYPRUS                          | 37      |
| HC     | ECUADOR, Quito               | 148     | UC5    | WHITE RUSSIA                   | 25      | ZD1    | SIERRA LEONE, Freetown          | 81      |
| HC8    | GALAPAGOS ISLANDS            | 167     | UD6    | AZERBAIJAN                     | 23      | ZD2    | NIGERIA, Lagos                  | 76      |
| HE1    | LEICHTENSTEIN                | 43      | UF6    | GEORGIA                        | 28      | ZD3    | GAMBIA                          | 84      |
| HH     | HAITI, Port-au-Prince        | 124     | UG6    | ARMENIA                        | 26      | ZD4    | GOLD COAST, Accra               | 80      |
| HI     | DOMINICAN REPUBLIC           | 122     | UH8    | TURKOMAN                       | 19      | ZD6    | NYASALAND                       | 69      |
| HK     | COLOMBIA, Bogota             | 140     | UI8    | UZBEK                          | 12      | ZD7    | ST. HELENA                      | 100     |
| HLI    | KOREA, Seoul                 | 324     | UJ8    | TADZHIK                        | 7       | ZD8    | ASENCION ISLAND                 | 99      |
| HP     | PANAMA                       | 145     | UL7    | KAZAKH                         | 10      | ZD9    | TRISTAN da CUNHA                | 122     |
| HR     | HONDURAS                     | 152     | UM8    | KIRGHIZ                        | 5       | ZE     | SOUTHERN RHODESIA, Salisbury    | 77      |
| HS     | SIAM, Bangkok                | 336     | UN1    | KARELO-FINNISH REPUBLIC        | 20      | ZK1    | COOK ISLANDS                    | 234     |
| HV     | VATICAN CITY                 | 45      | UO5    | MOLDAVIA                       | 32      | ZK2    | NIUE                            | 242     |
| HZ     | SAUDI ARABIA                 | 34      | UP     | LITHUANIA                      | 30      | ZL1    | NEW ZEALAND, Auckland           | 238     |
| I      | ITALY, Rome                  | 45      | UQ     | LATVIA                         | 29      | ZL2    | Wellington                      | 234     |
| IS     | SARDINIA                     | 48      | UR     | ESTONIA                        | 27      | ZL3    | Christchurch                    | 233     |
| JA     | JAPAN, Tokyo                 | 315     | VE1    | CANADA, Halifax                | 68      | ZL4    | Dunedin                         | 231     |
| KB6    | BAKER ISLAND                 | 262     | VE2    | Montreal                       | 64      | ZM6    | SAMOA (British)                 | 248     |
| KC6    | CAROLINE ISLANDS             | 260     | VE3    | Toronto                        | 77      | ZP     | PARAGUAY, Asuncion              | 141     |
| KG4    | GUANTANAMO BAY, Cuba         | 126     | VE4    | Winnipeg                       | 10      | ZS     | UNION OF SOUTH AFRICA, Capetown | 104     |
| KG6    | GUAM                         | 297     | VE5    | Saskatoon                      | 339     |        | Durban                          | 91      |
| KG6I   | IWO JIMA ISLAND              | 317     | VE6    | Edmonton                       | 330     |        | Johannesburg                    | 89      |
| KG6S   | SAIPAN ISLAND                | 297     | VE7    | Vancouver                      | 308     | ZS3    | SOUTH WEST AFRICA, Windhoek     | 92      |
| KG6T   | TINIAN ISLAND                | 297     | VE8    | Fort Nelson                    | 333     | ZS7    | SWAZILAND                       | 87      |
| KH6    | HAWAIIAN ISLANDS, Honolulu   | 267     | VKI    | HEARD ISLAND                   | 163     | ZS8    | BASUTOLAND                      | 93      |
| KJ6    | JOHNSTON ISLAND              | 270     | VK2    | AUSTRALIA, Sydney              | 252     | ZS9    | BECHUANALAND                    | 87      |

# WORLD MAP SHOWING



# RADIO AMATEUR PREFIXES

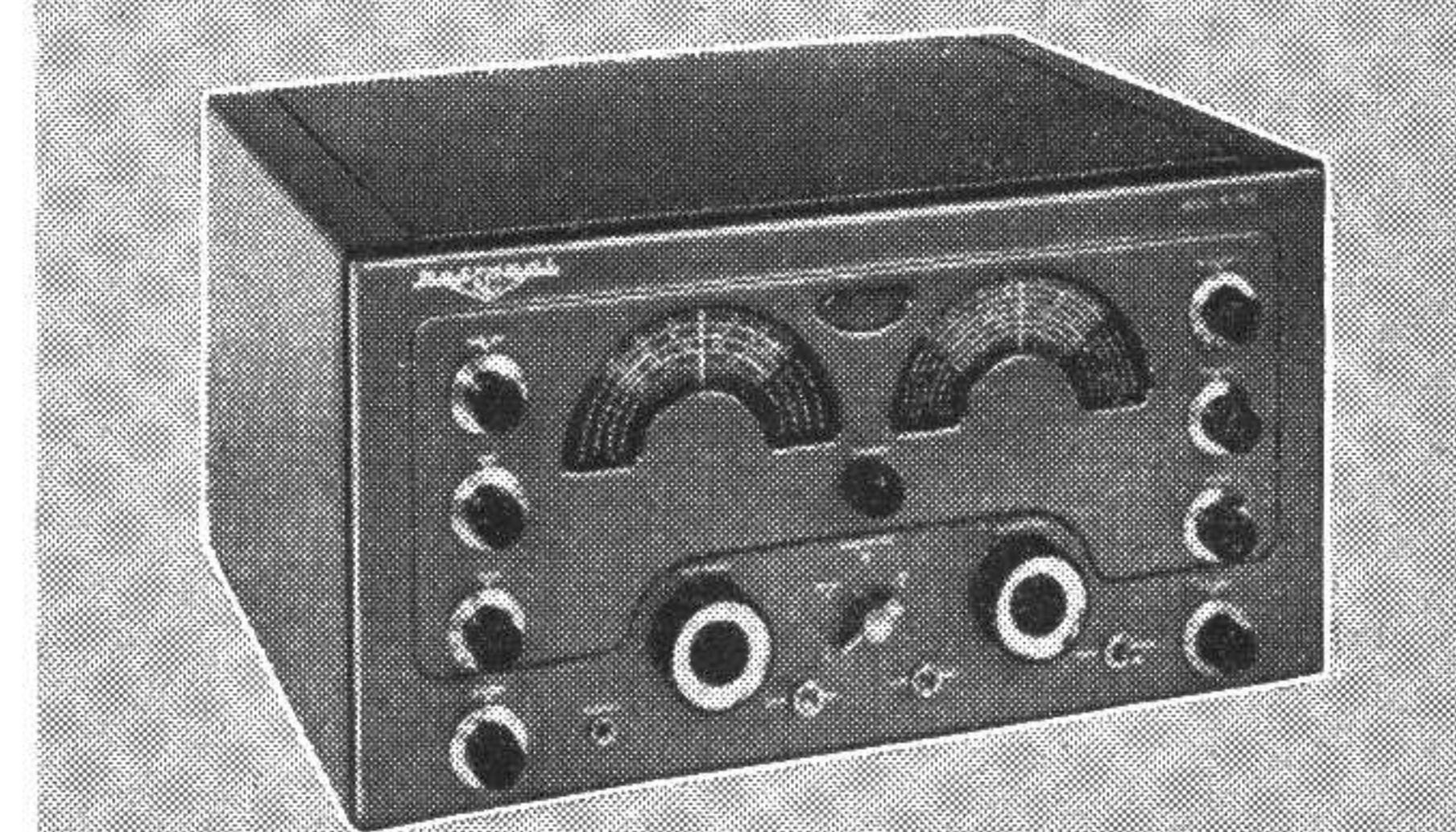


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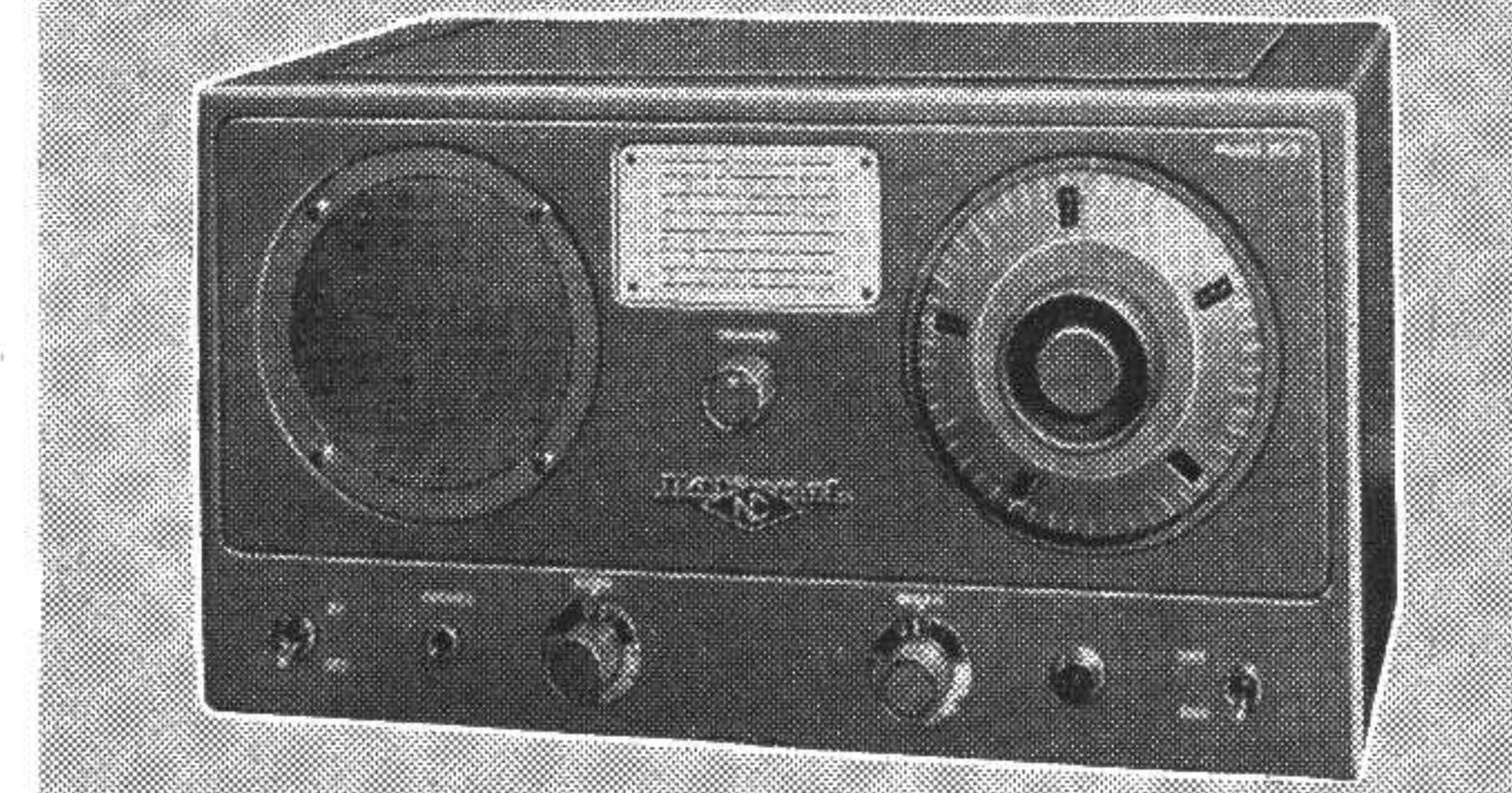
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